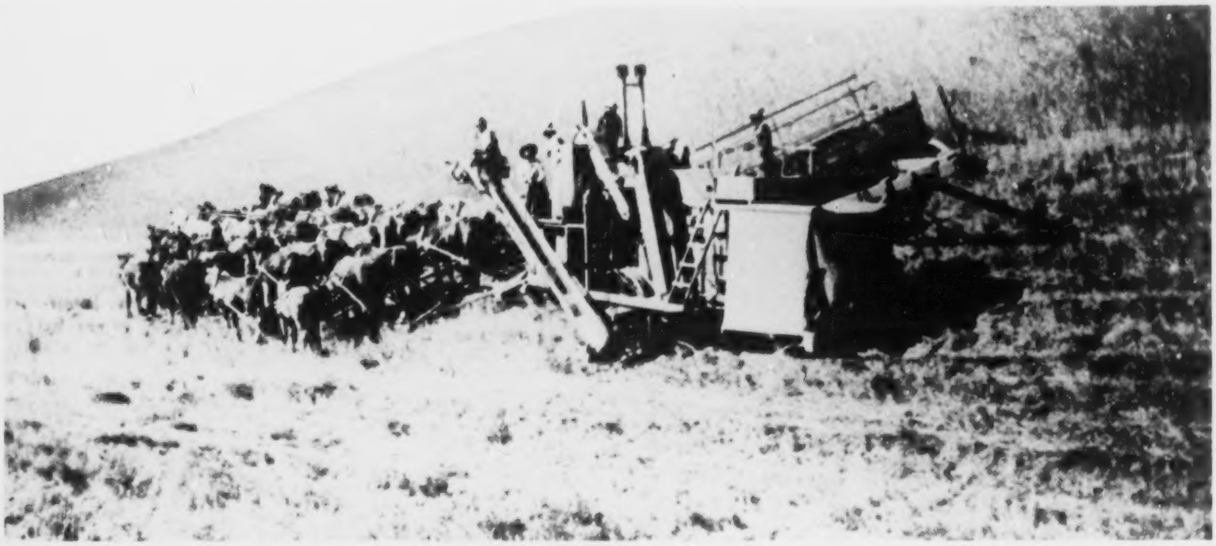
Washington Agricultural Statistics
1987-1988

58328-1-U-



100 Years Of Service

WASHINGTON · CENTENNIAL ™

WASHINGTON AGRICULTURAL STATISTICS

1987-88 ANNUAL **PUBLISHED: November 1988**

Prepared by:

WASHINGTON AGRICULTURAL STATISTICS SERVICE
417 WEST 4TH AVENUE
OLYMPIA, WASHINGTON 98501
(206) 586-8919

Douglas A. Hasslen, State Statistician

Jerry McCall, Deputy State Statistician

SURVEY GROUP	ESTIMATES GROUP	SUPPORT & ADMINISTRATION
Joe Ross, Ldr.	Harry Nishimoto, Ldr.	Gail Spain
David Losh	Frank Hammel, Jr.	Joan Workman
Linda Larsen	Kim Ritchie	
Leo Zeggert	Joel Gentillon	
Dale Smith	Mary Erickson	
Ruby Van De Car		
Randy Sanford		
Rhonda Bell		

Issued Cooperatively by:

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE

C. Alan Pettibone, Director

Art Scheunemann, Asst. Director

Development Division

UNITED STATES
DEPARTMENT OF AGRICULTURE
NATIONAL AGRICULTURAL
STATISTICS SERVICE

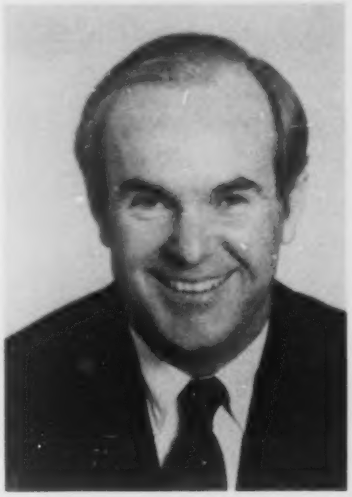
Charles Caudill, Administrator

Frederic Vogel, Director, State Offices

STATE OF WASHINGTON
OFFICE OF THE GOVERNOR

OLYMPIA
98504-0413

BOOTH GARDNER
GOVERNOR



September, 1988

To the Citizens of Washington State,

Once again I take pleasure in joining with the Washington State Department of Agriculture and the Washington Agricultural Statistics Service to present you this factual view of Washington's number one industry -- agriculture.

Agriculture has been a keystone of our economy since Washington became a state. The importance of this industry is clear as we look back on our history and ahead to the future.

I have been very pleased the past year as I've watched this state's agricultural industry, working with Dr. Pettibone and his staff, take on the challenge of setting its goals for the next 15 years and laying out strategies for how it will reach them. I have met with industry leaders to discuss "Ag-2000: Economic Strategies for Washington Agriculture" and have developed proposals for how state government can help our agricultural industry reach its goals. These include proposals to expand our domestic and international marketing efforts, improve the business climate for food processing and resolve natural resource conflicts.

When planning for the future, the first step is to gather as much data as possible. This is why it is so important that we have current information that is as accurate as possible.

The information found in this bulletin and in other reports issued throughout the year is vital to me personally as well as to a wide variety of others who make daily decisions that shape the course of the state's economy.

I am pleased to join Director Pettibone in thanking all the volunteer reporters of factual information who make this publication possible.

Sincerely,

Booth Gardner

Booth Gardner
Governor

C. ALAN PETTIBONE
Director

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE
406 General Administration Bldg., AX-41 • Olympia, Washington 98504-0641 • (206) 753-5063

This issue of Washington Agricultural Statistics serves as a springboard into the Department of Agriculture's observance of the state's centennial. Washington agriculture has undergone profound changes over the past 100 years. The 1890 Census of Agriculture showed Washington farmers grew 372,658 acres of wheat with an average yield of 17 bushels per acre. In 1987, our wheat growers harvested over 2 million acres with a yield of 57 bushels per acre. The changes in production of other commodities over the last century are equally impressive. These dramatic differences are the result of several factors including improved varieties, better fertilizer practices and the extensive irrigation brought into the state.

It is always good to look back at the past as we chart a course for the future. With our statistics program we continue to record history for future generations. By reviewing where we've been and where we'd like to be in the future, this department in conjunction with the state's agricultural industry recently developed "AG-2000: Economic Strategies for Washington Agriculture". This document spells out strategies in five areas designed to position the industry such that the state's diverse agricultural interests can best take advantage of economic development opportunities to the year 2000 and beyond. With the help of this plan we should be able to move into the second hundred years and show as dramatic a change as the first one hundred years.

Washington Agricultural Statistics is our annual summary publication and part of an extensive schedule of reports issued by the Washington Agricultural Statistics Service. This statistical program is a joint effort of the Washington State Department of Agriculture and the National Agricultural Statistics Service. Through this cooperative arrangement, we are able to provide a comprehensive program of agricultural data without duplication of resources.

The data for this publication were supplied voluntarily by thousands of state farmers, ranchers, agri-businessmen and others. Each of those individuals has my sincere thanks for the important role they played in making this publication and other agricultural reports possible.

Sincerely,

C. Alan Pettibone

C. Alan Pettibone
Director

Phone (206)586-8919

Washington
Agricultural
Statistics Service
P.O. Box 609 Olympia, Washington 98507

This edition of Washington Agricultural Statistics is a very special one. We are celebrating two important historical milestones this year. The National Agricultural Statistics Service noted the 125th anniversary of the nation's first Crop Report in July of this year. Abraham Lincoln was President and the Report was a pioneering attempt to survey the condition of crops in the young nation and help inform farmers.

The second milestone is our State's Centennial celebration. Starting on November 11, we begin a year long series of events culminating on November 11, 1989, when we mark the 100th anniversary of the signing of the statehood charter. The photos on the cover depict changes that have occurred in various commodity areas in agriculture.

The changes that have taken place this past century are in some cases quite dramatic. Pear production has increased to almost 400 times the level in 1890. Many other commodities have expanded considerably over the early levels. In some cases, they have been of decreasing importance. The sheep and hog industries are examples of this. The following table shows comparative data for selected commodities in 1890 and 1987.

I would like to add my thanks to the countless thousands of volunteer reporters who, by giving of their time and knowledge, have made it possible to document the changes. I would also like to acknowledge and thank the office staff of the Washington Agricultural Statistics Service. Their professionalism and dedication in making sure that data users have the most accurate figures possible is greatly appreciated. If the next 100 years produce as much change as the last 100 years, we are in for quite an experience.

Sincerely,

Doug Hasslen

Douglas A. Hasslen
State Statistician

United States Dept. of Agriculture Cooperating With Washington State Dept. of Agriculture

HISTORIC COMPARISONS

Commodity	Unit	1890		1987	
		Acres	Production	Acres	Production
Wheat	Bu.	372,658	6,345,426	2,015,000	114,285,000
Barley	Bu.	51,551	1,269,140	645,000	35,475,000
Oats	Bu.	65,089	2,273,182	35,000	2,310,000
All Hay	Tons	286,013	395,770	760,000	2,698,000
Hops	Lbs.	5,113	8,313,280	20,100	37,398,000
Dry Peas	Cwt.	N/A	15,314	106,000	2,120,000
Dry Beans	Cwt.	N/A	815	35,000	746,000
Potatoes	Cwt.	13,080	867,011	124,000	66,960,000
Flax Seed	Bu.	4,270	42,285	N/A	N/A
Flax Straw	Tons	1/	292	N/A	N/A
Sorghum	Gal.	20	1,225	N/A	N/A
Indian Corn	Bu.	9,583	156,413	N/A	N/A
Buckwheat	Bu.	27	430	N/A	N/A
Broomcorn	Lbs.	55	22,000	N/A	N/A
Rye	Bu.	1,763	19,188	N/A	N/A
			Production		Production
Apples	Tons		7,085		2,400,000
Apricots	Tons		93		3,900
All Cherries	Tons		281		75,400
Peaches	Tons		1,524		21,500
All Pears	Tons		672		336,000
Plums/Prunes	Tons		1,873		12,300
			Number		Number
Sheep	Head		265,267		72,000
Lambs	Head		108,668		63,000
Wool	Lbs.		1,556,792		626,000
All Cattle	Head		255,134		1,290,000
Milk Cows	Head		70,721		208,000
Calves	Head		74,538		525,000
Milk	Lbs.		170,910,217		3,763,000,000
Hogs	Head		90,274		55,000
Chickens	Head		779,972		6,005,000
Eggs	Count		32,526,240		1,303,000,000
Honey	Lbs.		156,435		4,125,000

1/ Flax acreage is total of all flax acres. Production divided into Seed and Straw.

The cover of this year's bulletin depicts some of the changes that have occurred in Washington's agriculture to celebrate the Centennial. The historic wheat harvest photograph is from the Northwest & Whitman Archival Collections, Penrose Memorial Library, Whitman College, Walla Walla, WA. 99362. The other photographs are from the files of the Washington Farmer Stockman in Spokane.

Special thanks are given to the Washington Farmer Stockman staff for their contribution in designing the cover and the color separation. Their contribution adds professionalism and is greatly appreciated.

TABLE OF CONTENTS

GENERAL

PAGE

Value of Production 8
Rank of Principal Commodities 9
Washington's Rank in Agriculture 10
Number of Farms and Land in Farms 11
Agricultural Statistics District 11
Record Highs and Lows 12-13
Prices Received 14-15
Prices Paid 16-18
Index of Prices 19
Farm Economics 20-21
Farm Labor 22
Floriculture 23-25
Exports 26-29
Usual Planting and Harvesting Dates 30
Estimates Schedule 124

FIELD CROPS

General Information 31
Acreage, Production, Price and Value 32-33
All Wheat 34-35
Winter Wheat 36
Spring Wheat 36
Wheat Varieties 37-39
Winter Wheat 1986-87 40-41
Spring Wheat 1986-87 42-43
Barley 44
Barley Varieties 45-47
Barley 1986-87 48-49
Oats 50-51
Corn, All 52
Corn for Grain 53
Corn for Silage 54
Hay 55
Hay 1986-87 56-57
Dry Beans 58-59
Potatoes 60-62
Mint 63-65
Hops 66
Seeds 67
Seeds 1986-87 68-69
Rapeseed 70

FRUITS

General Information 71
Production, Price, and Value 72
Utilized Production 73-74
Harvesting Costs 75
Apples 76
Refrigerated Space 77

PAGE

Grapes 78-79
Apricots 80
Peaches 80
Sweet Cherries 81
Bartlett and Other Pears 82
Prunes 83
Filberts 83

VEGETABLES

Acreage, Production, and Value 84-85
Asparagus 86
Carrots 87
Sweet Corn 88
Green Peas, Processing 89
Snap Beans, Processing 90
Mushrooms 90
Dry Onions 91
Lettuce 92

BERRIES

Acreage, Production, and Value 93
Berry Prices 94
Black Raspberries 94
Strawberries 95
Red Raspberries 96
Blueberries 97
Cranberries 98
Cultivated Blackberries 98

LIVESTOCK

General Information 99
Value of Production 1983-87 100
Inventory and Value 101
Cattle and Calves 102-103
Cattle on Feed 104-105
Milk Production, Utilization, and Value 106
Milk Cows and Milk Production 107
Dairy Products 108-109
Hogs 110-111
Sheep and Lambs 112-113
Poultry 114-115
Mink 116
Bees and Honey 117
Livestock County Estimates 118-119
Aquaculture 120-123

VALUE OF PRODUCTION

Washington's value of production of all agricultural commodities during 1987 was $2.9 billion, down 5 percent from 1986, and 12 percent less than the 1984 record value of $3.28 billion. Since 1970, the State's value of production has increased over three times with the sharpest gain being made from 1970-73 when the value of production doubled during the four years. The years 1974-76 saw a slight decline in the State's value of production. This was followed by a period of sharp gains during the years 1977-84. The State's value of production in these years increased by more than 64 percent before reaching a record value of $3.28 billion in 1984.

Field crops, representing 33 percent of the State's value of production, continued to be the number one category during 1987. Field crops accounted for $972 million, the lowest since 1978 and down 9 percent from last year's value of $1.05 billion. Potatoes, barley, lentils, and dry edible peas bore the largest share of the decline in farm production value while wheat made a small gain to help offset the difference.

Fruit crops contributed $517 million, or 18 percent, to the State's value of production in 1987. This value is down 24 percent from last year's record value of $683 million. Despite a record utilized harvest of 2.3 million tons, apples, which were last year's number one commodity, decreased 36 percent in production value, and dropped to third place among Washington's principal commodities as a result of low prices. The value of sweet cherries and grapes, however, increased by 15 and 49 percent respectively, contributing an additional $27 million to the State's total.

Increases in value of production of sweet corn, onions, and carrots resulted in a record value level for vegetable crops in 1987. Vegetable crops accounted for $174 million, up 7 percent from 1986.

Significant increases in yield and utilized production for all berry crops in Washington contributed to a record value of production for berry crops in 1987. Berry crops added $32 million to the state total, an increase of 29 percent from 1986.

The value of production for livestock and livestock products increased by 4 percent, and comprised 32 percent of the state total. With the exception of poultry and poultry products, values of all other livestock and livestock products showed an increase from the previous year. Milk replaced apples as the State's number one principal commodity by contributing $475 million to the state total. Cattle and calves also moved up one place and is second among the State's principal commodities for 1987.

Value of Production, Washington

Year	Field Crops	Fruit & Nuts	Vege-tables	Seed Crops 1/	Berry Crops	Total Crops	Specialty Products	Livestock & Products	State Total
				1,000 Dollars					
1973	915,653	220,901	60,733	32,434	15,356	1,245,077	123,016	455,104	1,823,197
1974	1,068,376	239,328	83,711	31,021	12,951	1,435,387	122,699	447,605	2,005,691
1975	1,077,227	208,846	93,933	26,045	12,747	1,418,798	120,356	454,375	1,993,529
1976	920,547	283,467	92,295	30,320	14,988	1,341,617	108,776	483,460	1,933,853
1977	753,390	361,917	86,718	27,073	18,176	1,247,274	149,987	487,483	1,884,744
1978	955,076	417,810	103,679	35,325	20,840	1,532,730	141,595	602,144	2,276,469
1979	1,012,707	457,566	127,098	31,969	21,905	1,651,245	186,000	765,929	2,603,174
1980	1,432,130	369,823	119,527	41,795	17,263	1,980,538	160,400	810,984	2,951,922
1981	1,411,703	438,382	138,790	31,975	22,279	2,043,129	173,192	881,843	3,098,164
1982	1,356,088	388,951	144,915	N/	28,788	1,918,742	170,089	892,485	2,981,316
1983	1,484,640	502,141	138,770	N/	26,750	2,152,301	179,020	908,434	3,239,755
1984	1,508,748	461,495	149,682	N/	21,990	2,141,915	195,398	939,523	3,276,836
1985	1,229,998	490,021	155,976	25,195	28,657	1,929,847	215,693	885,151	3,030,691
1986	1,052,796	683,039	162,274	26,151	24,859	1,949,119	226,690	886,314	3,062,123
1987	971,956	517,165	173,381	35,618	32,114	1,730,234	243,489	924,253	2,897,976

1/ Seed crops not available for 1982-1985 due to program modifications.

Rank of Principal Commodities, Washington 1/

Commodity	Rank 1985	Rank 1986	Rank 1987	Value of Production 1985	Value of Production 1986	Value of Production 1987	% Change 1987 vs 1986
				1,000 Dollars			
Milk	1	2	1	478,471	468,980	474,991	1
Cattle and Calves	4	3	2	287,784	294,337	325,594	11
Apples	3	1	3	348,740	488,400	312,400	-36
Wheat	2	4	4	437,333	293,294	308,570	5
Potatoes	5	5	5	219,524	266,385	244,404	-8
Hay	6	6	6	219,278	172,440	147,041	-15
Nursery & Greenhouse Products	8	7	7	98,000	94,000	100,000	6
Sweet Cherries	14	10	8	36,527	59,437	68,332	15
All Pears	9	8	9	69,126	75,832	66,895	-12
Barley	7	9	10	110,448	75,150	65,629	-13
Grapes	20	14	11	20,642	37,120	55,356	49
Hops	10	11	12	65,357	56,439	49,365	-13
Eggs	12	12	13	55,103	55,577	48,211	-13
Asparagus	13	13	14	42,443	40,612	40,257	-1
Chickens & Broilers	15	16	15	34,060	36,049	36,045	0
Sweet Corn, All	16	20	16	27,240	24,531	30,867	26
Corn, Grain	11	15	17	57,240	36,720	28,560	-22
Onions	23	21	18	13,540	23,770	27,342	15
Mint Oil	17	17	19	26,862	27,991	26,721	-5
Corn, Silage	18	18	20	26,620	27,000	22,000	-19
Green Peas, Processing	19	22	21	23,616	20,431	21,714	6
Kentucky Bluegrass Seed	28	24	22	8,356	13,407	19,404	
Dry Edible Peas	4	23	23	12,981	18,054	14,840	-18
Carrots	26	25	24	11,257	12,270	13,021	6
Red Raspberries	27	28	25	9,433	10,509	12,109	15
Mink	30	30	26	7,910	8,085	11,325	40
Alfalfa Seed	22	27	27	14,127	10,537	11,172	6
Lentils	21	19	28	18,270	26,637	10,709	-60
Dry Edible Beans	25	26	29	12,922	11,926	10,668	-11
Hogs	32	31	30	7,223	7,227	9,268	28
Strawberries	33	32	31	6,971	6,500	8,180	26
Mushrooms	34	33	32	5,229	6,263	7,576	21
Peaches	31	29	33	7,365	9,105	7,076	-22
Cranberries 2/	29	34	34	8,214	5,310	6,903	30
Blueberries	36	-	35	3,462	2,022	4,312	113
Sheep, Lambs & Wool	35	35	36	3,479	3,696	4,220	14
Lettuce	39	38	37	2,717	3,175	3,576	13
Wrinkled Seed Peas	-	39	38	-	2,498	3,180	27
Oats	37	-	39	3,218	2,360	3,119	32
Cucumbers For Pickles	38	40	40	3,108	2,448	3,055	25

1/ The Washington State Department of Fisheries annually calculates the value of Aquaculture production. The 1987 preliminary value is placed at $24,227,833, but not included in Table. Refer to pages 120-123 in this Publication for a breakdown by specie.

2/ The 1987 value estimated using 1986 price.

Washington's Rank in the Nation's Agriculture

Item	Rank Among States 1987	Rank Among States 1986	Washington Production 1987	Unit	Washington Percent of U. S.	Leading State
			1,000 Units			
Crops						
Hops	1	1	37,398	Lbs.	74.7	Washington
Spearmint Oil	1	1	1,408	Lbs.	68.6	Washington
Peppermint Oil	2	2	1,001	Lbs.	22.5	Oregon
Potatoes, Fall	2	2	66,960	Cwt.	19.6	Idaho
Barley	5	5	35,475	Bu.	6.7	North Dakota
Wheat, All	5	7	114,285	Bu.	5.4	Kansas
Dry Edible Beans	8	8	746	Cwt.	2.8	Michigan
All Hay	22	22	2,698	Tons	1.8	California
Fruit						
Sweet Cherries	1	1	74.0	Tons	35.1	Washington
Apples, All	1	1	4,800,000	Lbs.	45.5	Washington
Pears, All	2	2	336.0	Tons	35.7	California
Apricots	2	2	3.9	Tons	3.4	California
Grapes	2	3	249.5	Tons	4.7	California
Prunes and Plums	4	4	12.3	Tons	2.3	California
Peaches	7	7	43,000	Lbs.	1.8	California
Vegetables						
Carrots, Processing	1	1	116.7	Tons	11.9	Washington
Asparagus	2	2	806.0	Cwt.	34.3	California
Green Peas, Processing	3	3	85.5	Tons	19.5	Wisconsin
Sweet Corn, Processing	3	4	402.3	Tons	14.0	Wisconsin
Dry Onions, All Summer	6	6	2,300	Cwt.	5.1	California
Berries						
Red Raspberries	1	1	23,040	Lbs.	51.7	Washington
Cranberries	5	5	130	Bbls.	4.0	Massachusetts
Strawberries, All	4	6	240	Cwt.	2.2	California
Livestock						
Mink	4	6	219.9	Pelts	5.6	Wisconsin
Milk Production	9	10	3,743,000	Lbs.	2.6	Wisconsin
Milk Cows 1/	12	14	211	Head	2.0	Wisconsin
Eggs Produced	17	17	3,303,000	Eggs	1.9	California
Bees and Honey	14	15	4,125	Lbs.	1.8	South Dakota
Broilers Produced	18	18	26,200	Head	.6	Arkansas
Farm Chickens 2/	19	20	6,005	Head	1.6	California
Sheep and Lambs 1/	28	29	72	Head	.7	Texas
All Cattle and Calves 1/	30	31	1,290	Head	1.3	Texas
Hogs and Pigs 2/	35	36	55	Head	.1	Iowa

1/ January 1, 1987 & 1988 Inventory. 2/ December 1, 1986 & 1987 Inventory.

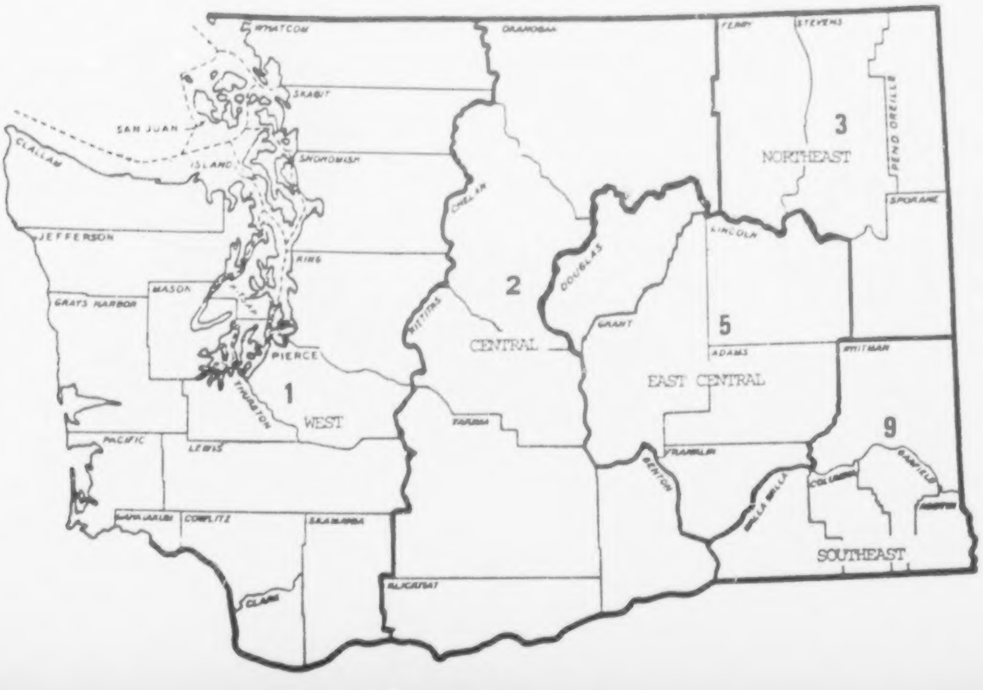
Number of Farms and Land in Farms 1/

Year	Washington			United States		
	No. of Farms	Land in Farms, Acres	Avg. Size of Farm	No. of Farms	Land in Farms, Acres	Avg. Size of Farm
	1,000	1,000	Acres	1,000	1,000	Acres
1974	38.0	16,300	429	2,796	1,084,433	388
1975	34.0	16,100	474	2,521	1,059,420	420
1976	34.0	16,100	474	2,497	1,054,075	422
1977	34.0	16,100	474	2,456	1,047,785	427
1978	36.0	16,100	447	2,436	1,044,790	429
1979	37.0	16,300	441	2,432	1,042,015	428
1980	38.0	16,300	429	2,433	1,038,885	427
1981	39.5	16,400	415	2,434	1,034,190	425
1982	39.0	16,400	421	2,401	1,027,795	428
1983	38.0	16,300	429	2,370	1,024,195	432
1984	38.0	16,100	424	2,328	1,019,378	438
1985	38.0	16,100	424	2,275	1,014,383	446
1986	38.0	16,000	421	2,212	1,007,643	456
1987	38.0	16,000	421	2,176	1,002,603	461
1988 2/	38.0	16,000	421	2,159	998,692	463

1/ Starting with 1975, the figures are based on the "new definition" which is a place with annual sales of agricultural products of $1,000 or more. Prior to this definition "a farm" included places of 10 or more acres that had annual sales of agricultural products of $50 or more and places of less than 10 acres that had annual sales of $250 or more.

2/ Preliminary.

Agricultural Statistics Districts (ASD)


WHATCOM
OKANOGAN
FERRY
STEVENS
SKAGIT
SAN JUAN
CLALLAM
ISLAND
SNOHOMISH
3
NORTHEAST
PEND OREILLE
CHELAN
SPOKANE
LINCOLN
JEFFERSON
KING
DOUGLAS
2
GRAYS HARBOR
MASON
KITTITAS
GRANT
5
CENTRAL
PIERCE
ADAMS
WHITMAN
EAST CENTRAL
1
THURSTON
WEST
YAKIMA
9
PACIFIC
LEWIS
FRANKLIN
BENTON
WALLA WALLA
COLUMBIA
GARFIELD
ASOTIN
WAHKIAKUM
COWLITZ
SKAMANIA
SOUTHEAST
KLICKITAT
CLARK

Record Highs and Lows in Washington Agriculture

Field Crops, Vegetables & Berries	Year Estimates Started	Record High or Low	Acreage		Yield			Production	
			Harvested	Year	Unit	Per Acre	Year	Total	Year
			1,000					1,000	
All Wheat	1879	High	3,200	1976	Bu.	64.2	1983	172,570	1983
		Low	82	1879	Bu.	12.5	1918	1,935	1879
Barley	1882	High	,180	1985	Bu.	75	1980	63,700	1984
		Low	24	1882	Bu.	13	1918	652	1882
Oats	1882	High	270	1909	Bu.	68	1984	13,230	1909
		Low	30	1/	Bu.	31	1889	1,505	1977
Corn, Grain	1919	High	160	1982	Bu.	170.0	2/	24,000	1982
		Low	6	1948	Bu.	26.5	1934	318	1934
Corn, Silage	1919	High	67	1973	Tons	25.0	1987	1,340	1973
		Low	7	3/	Tons	6.9	1919	70	1920
Dry Edible Beans 4/	1929	High	73	1958	Cwt.	22.2	1983	1,402	1958
		Low	1	5/	Cwt.	2.4	1929	9	1930
Dry Edible Peas 6/	1929	High	390	1943	Cwt.	25.5	1980	2,812	1962
		Low	42	1929	Cwt.	7.1	1949	330	1929
Lentils	1952	High	163	1980	Lbs.	1,250	7/	163,000	1980
		Low	3	8/	Lbs.	230	1977	18,000	1959
Potatoes	1882	High	126	1985	Cwt.	540	1987	66,960	1987
		Low	8	1882	Cwt.	61	1883	918	1883
Hops	1915	High	31	1981	Lbs.	2,380	1926	59,470	1981
		Low	2	1923	Lbs.	1,187	1925	2,680	1919
All Hay	1909	High	1,046	1934	Tons	3.65	1984	2,921	1984
		Low	760	1987	Tons	1.58	1933	1,332	1909
Mint Oil 9/	1929	High	43.2	1978	Lbs.	118	1986	3,528	1978
		Low	.4	1934	Lbs.	25	1932	13	1932
Asparagus	1923	High	31.00	1987	Cwt.	42	1945	812	1985
		Low	.45	1923	Cwt.	14	1924	7	1924
Carrots	1929	High	6.6	1987	Cwt.	467	10/	3,036	1987
		Low	.5	1929	Cwt.	150	1929	75	1929
Green Peas, Processing	1928	High	90.10	1968	Cwt.	41.2	1987	2,799	1965
		Low	1.44	1928	Cwt.	16.1	1940	274	1928
Lettuce	1918	High	5.00	1934	Cwt.	228	1922	680	1961
		Low	19	1918	Cwt.	100	1943	34	1918
Onions	1918	High	6.4	1987	Cwt.	459	1966	2,832	1987
		Low	.8	1918	Cwt.	171	1921	182	1918
Snap Beans, Processing	1918	High	4.9	1968	Cwt.	122.2	1961	352	1968
		Low	.1	11/	Cwt.	44.0	1928	6	1920
Sweet Corn, All	1934	High	54.60	1982	Cwt.	176	1982	9,621	1982
		Low	.25	1934	Cwt.	42	1934	500	12/
Cranberries	1959	High	1.20	13/	Cwt.	162.0	1968	162,000	1968
		Low	.95	14/	Cwt.	42.7	1960	42,711	1960
Strawberries	1918	High	9.00	1932	Cwt.	96.0	1987	496	1962
		Low	2.61	1918	Cwt.	16.2	1930	66	1918
Alfalfa Seed 15/	1939	High	38.0	1973	Lbs.	680	1967	20,520	1973
		Low	1.7	1943	Lbs.	69	1939	190	1944
Kentucky Bluegrass Seed, All	1963	High	43.4	1973	Lbs.	667	1978	22,531	1971
		Low	16.7	1963	Lbs.	193	1977	3,910	1977
Red Clover Seed, All 15/	1935	High	13.0	1978	Lbs.	490	1987	3,900	1978
		Low	1.0	16/	Lbs.	125	1938	140	1935

1/ 1978, 1980, 1982, 1984. 2/ 1986, 1987. 3/ 1946, 1947. 4/ No estimates for 1931-36. 5/ 1930, 1937. 6/ Excludes both wrinkled seed peas and Austrian winter peas. 7/ 1974, 1985. 8/ 1952, 1953. 9/ Only peppermint before 1952. 10/ 1977, 1980. 11/ 1920, 1921. 12/ 1934, 1936. 13/ 1985, 1986, 1987. 14/ 1959, 1962.15/ Estimates discontinued for 1982-84. 16/ 1935, 1936, 1973.

Record Highs and Lows in Washington Agriculture (continued)

Fruit	Year Estimates Started	Record High or Low	Production		
			Unit	Total	Year
Apples	1889	High	Million Pounds	4,800.0	1987
		Low		13.6	1889
Cherries, Sweet	1934	High	Tons	89,000	1983
		Low		1,800	1966
Pears, Bartlett	1919	High	Tons	172,125	1946
		Low		28,925	1920
Pears, Other	1919	High	Tons	165,000	1987
		Low		10,250	1924
Grapes	1909	High	Tons	249,500	1987
		Low		900	1/
Prunes	1919	High	Tons	45,200	1935
		Low		9,100	1986
Apricots	1927	High	Tons	28,000	1947
		Low		800	1965
Cherries, Tart 2/	1934	High	Tons	7,100	1940
		Low		500	1961
Peaches	1899	High	Million Pounds	123.1	1947
		Low		1.0	1965

Livestock	Year Estimates Started	Record High or Low	Inventory Jan. 1 or Production		
			Unit	Total	Year
All Cattle	1867	High	1,000 Head	1,579	1980
		Low		81	1867
Milk Cows	1867	High	1,000 Head	380	3/
		Low		5	1867
Cattle and Calves on Feed	1930	High	1,000 Head	221	4/
		Low		6	1935
Chickens on Farms	1925	High	1,000 Head	8,250	1931
		Low		4,800	1951
Broilers	1934	High	1,000 Head	26,200	1987
		Low		450	1934
Hogs and Pigs	1867	High	1,000 Head	434	1944
		Low		10	1867
Sheep	1867	High	1,000 Head	815	1902
		Low		53	1985
Milk	1924	High	Million Pounds	3,763	1987
		Low		1,540	1924
Eggs	1925	High	Million Eggs	1,355	1985
		Low		704	1925
Mink Pelts	1969	High	1,000 Pelts	313	1969
		Low		142	1972
Bees	1913	High	1,000 Colonies	100	1959
		Low		51	1913

1/ 1909, 1910. 2/ Official estimates 1934-1971. 3/ 1943, 1944, 1945.
4/ October 1, 1984.

Prices Received by Farmers, Washington

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Crop Year or Season Average 1/
Dollars Per Bushel													
All Wheat													
1983							3.81	3.78	3.77	3.73	3.71	3.59	3.69
1984	3.59	3.45	3.54	3.72	3.65	3.76	3.50	3.40	3.37	3.44	3.45	3.42	3.45
1985	3.43	3.51	3.60	3.67	3.57	3.39	3.30	3.24	3.30	3.38	3.48	3.50	3.41
1986	3.48	3.43	3.53	3.65	3.54	2.96	2.59	2.38	2.40	2.44	2.53	2.58	2.51
1987	2.62	2.74	2.83	2.81	2.78	2.68	2.53	2.56	2.63	2.76	2.72	2.74	2.70
1988	2.93	2.91	2.88	2.93	3.12	3.42							
Dollars Per Bushel													
Barley													
1983							2.24	2.42	2.53	2.63	2.68	2.73	2.58
1984	2.69	2.59	2.70	2.83	2.71	2.72	2.35	2.28	2.21	2.26	2.35	2.35	2.25
1985	2.28	2.25	2.13	2.19	2.16	1.97	1.97	1.86	1.81	1.90	2.01	2.14	1.95
1986	2.11	1.95	1.91	1.90	1.91	1.58	1.45	1.49	1.66	1.66	1.68	.00	1.67
1997	1.73	1.79	1.85	1.88	1.90	2.04	1.92	1.82	1.85	1.84	1.89	1.92	1.85
1988	1.91	1.84	1.77	1.83	2.00	2.39							
Dollars Per Cwt.													
Potatoes													
1983								6.05	4.00	3.45	3.80	4.30	4.25
1984	5.10	4.60	4.65	4.70	4.70	3.95	3.30	9.50	5.15	3.90	4.20	4.90	5.15
1985	5.25	5.30	4.75	4.90	4.95	4.85	4.70	3.20	3.00	3.10	3.30	3.60	3.45
1986	3.70	3.70	3.65	3.80	3.65	4.25	4.25	5.20	3.90	3.75	4.20	4.45	4.30
1987	4.50	4.35	4.30	4.60	4.65	5.00	4.10	4.05	3.30	3.40	3.30	3.80	3.65
1988	3.85	3.60	3.90	3.85	3.90	3.80	4.00						
Dollars Per Ton													
All Hay													
1983						86.00	75.00	75.00	77.00	83.00	76.00	81.00	78.50
1984	78.00	79.00	77.00	72.00	83.00	83.00	95.00	81.00	70.00	74.00	69.00	75.00	80.50
1985	83.00	72.00	90.00	99.00	95.00	90.00	83.00	77.00	73.00	80.00	78.00	87.00	84.50
1986	92.00	95.00	95.00	94.00	84.00	81.00	68.00	68.00	60.00	60.00	58.00	53.00	60.00
1987	52.00	48.00	45.00	40.00	57.00	57.00	54.00	58.00	52.00	52.00	54.00	51.00	54.50
1988	51.00	55.00	53.00	59.00	59.00								
Cents Per Pound													
Apples (Fresh Use)													
1983								11.9	15.5	12.7	12.5	12.3	13.8
1984	13.5	14.3	14.4	14.1	14.3	14.4	-	-	19.5	16.6	14.9	14.3	13.3
1985	11.9	11.5	13.7	12.6	11.7	12.1	11.8	10.3	17.0	18.1	19.2	18.4	20.4
1986	18.7	18.9	18.9	19.3	24.8	25.5	28.5	31.0	18.9	16.2	15.5	15.3	18.6
1987	18.1	19.1	18.3	19.8	23.4	26.2	26.1	13.2	16.8	8.7	7.0	7.5	9.4
1988	8.3	10.8	11.5	8.9	9.0	10.8	20.0						

1/ Crop year begins with month to right of heavy line. Data for 1988 are preliminary monthly prices.

- Not Available.

Prices Received by Farmers, Washington (continued)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Average
						Dollars Per Cwt.							
Cows 1/													
1983	36.00	39.00	41.70	41.70	42.40	40.70	39.50	38.60	37.20	35.40	34.30	35.50	38.40
1984	36.20	39.40	40.30	41.10	39.80	40.70	39.00	38.20	35.70	35.40	32.50	34.60	37.50
1985	37.50	39.80	39.90	39.50	38.00	36.90	33.90	35.40	33.90	31.30	31.20	31.10	35.40
1986	32.60	35.00	36.50	32.60	34.10	33.70	35.50	35.30	35.30	34.60	33.80	34.60	34.30
1987	38.40	41.40	43.10	43.20	43.00	43.70	43.50	43.90	44.30	42.70	41.00	43.00	42.70
Steers and Heifers													
1983	59.00	60.40	62.70	67.20	66.00	64.70	63.50	61.20	58.60	58.40	57.20	63.00	61.70
1984	66.90	65.80	66.50	66.10	64.80	62.50	62.30	61.40	59.40	58.10	61.10	63.00	62.90
1985	63.10	63.30	60.00	59.10	56.10	57.30	52.10	49.90	50.90	51.90	58.30	61.70	56.80
1986	58.20	54.20	54.30	52.00	53.90	52.60	55.50	56.90	57.50	56.80	59.60	59.30	55.90
1987	59.30	61.60	61.60	65.80	67.00	66.20	62.50	62.50	62.90	66.00	63.80	63.90	63.60
Calves													
1983	53.40	59.60	62.10	60.70	62.70	57.90	48.90	51.20	46.70	49.40	50.00	47.00	55.20
1984	52.30	57.80	61.00	60.80	62.20	65.60	55.80	46.50	47.10	51.80	51.10	55.50	55.10
1985	56.60	59.80	58.60	60.90	61.90	54.10	48.60	47.20	47.00	53.70	49.10	46.60	53.70
1986	49.20	53.60	53.60	50.00	50.60	49.50	49.90	52.00	55.10	54.90	54.90	57.90	52.90
1987	64.00	66.80	71.10	71.60	74.60	74.40	74.90	75.00	73.90	81.30	79.60	80.30	76.00
Milk Sold to Plants, All													
1983	13.50	13.40	13.40	13.30	13.20	13.20	13.20	13.20	13.30	13.30	13.40	13.20	13.30
1984	13.10	12.90	12.80	12.80	12.80	12.80	12.80	13.00	13.20	13.40	13.70	13.40	13.10
1985	13.50	13.20	12.90	12.60	12.40	12.00	11.90	11.90	11.90	12.00	12.10	12.10	12.40
1986	12.00	12.00	11.80	11.80	11.80	11.70	11.80	12.00	12.30	12.50	12.70	12.80	12.10
1987	12.80	12.50	12.20	12.00	11.80	11.90	11.90	12.00	12.30	12.50	12.60	12.50	12.20
						Dollars Per Head							
Milk Cows 2/													
1983	1,120	-	-	1,100	-	-	1,070	-	-	1,000	-	-	1,070
1984	980	-	-	1,010	-	-	1,000	-	-	1,000	-	-	1,000
1985	980	-	-	1,010	-	-	960	-	-	900	-	-	965
1986	870	-	-	870	-	-	920	-	-	950	-	-	905
1987	1,020			1,080			1,090			1,100			1,070

1/ Beef cows sold for slaughter and herd replacement, and cull dairy cows sold for slaughter.

2/ Dairy cows sold for dairy herd replacement. Prices estimated quarterly beginning January 1982.

Prices Paid by Farmers, Washington

Commodity/ Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
	(Dollars Per Ton)											
Chick Starter												
1983	198	205	205	205	225	220	220	220	210	230	235	245
1984	235	230	250	245	255	235	235	230	225	215	215	205
1985	205	210	210	210	215	215	196	186	184	178	200	200
1986 1/	183	205	-	-	-	-	-	-	-	-	-	-
1986 2/	184	183	-	184	-	-	185	-	-	197	-	-
1987 2/	176	-	-	164	-	-	221	-	-	172	-	-
Broiler Grower												
1983	193	199	197	194	210	200	200	200	205	225	215	235
1984	215	205	225	245	260	235	235	230	230	210	205	215
1985	200	200	200	200	215	210	197	186	184	176	176	180
1986 1/	179	191	-	-	-	-	-	-	-	-	-	-
1986 2/	190	186	-	184	-	-	194	-	-	184	-	-
1987 2/	181	-	-	193	-	-	221	-	-	171	-	-
Laying Feed												
1983	176	177	178	191	194	194	200	195	195	205	200	200
1984	200	200	205	225	225	205	205	199	200	200	199	191
1985	205	200	205	200	205	205	199	193	189	195	186	188
1986 1/	186	198	-	-	-	-	-	-	-	-	-	-
1986 2/	171	167	-	163	-	-	170	-	-	159	-	-
1987 2/	155	-	-	167	-	-	180	-	-	153	-	-
Dairy Feed 14% Protein												
1983	169	162	165	165	176	176	171	182	183	185	186	189
1984	187	186	189	189	183	176	180	181	178	165	169	157
1985	170	168	169	166	168	169	170	159	161	167	155	160
1986 1/	160	159	-	-	-	-	-	-	-	-	-	-
1986 2/	152	152	-	149	-	-	144	-	-	136	-	-
1987 2/	144	-	-	143	-	-	144	-	-	136	-	-
Dairy Feed 16% Protein												
1983	178	167	172	173	179	177	180	188	186	190	189	193
1984	196	189	195	195	190	187	187	191	190	176	172	170
1985	181	171	174	173	189	182	190	171	170	172	165	164
1986 1/	164	169	-	-	-	-	-	-	-	-	-	-
1986 2/	161	161	-	157	-	-	155	-	-	144	-	-
1987 2/	147	-	-	142	-	-	149	-	-	146	-	-

Prices Paid by Farmers, Washington (continued)

Commodity/ Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
	Dollars Per Ton											
Soybean Meal												
1983	410	380	370	400	400	380	370	390	410	410	410	410
1984	410	410	390	410	410	400	400	390	380	360	350	330
1985	340	360	350	370	360	370	360	330	340	340	340	360
1986 1/	350	320	-	-	-	-	-	-	-	-	-	-
1986 2/	314	336	-	328	-	-	302	-	-	340	-	-
1987 2/	338	-	-	330	-	-	344	-	-	334	-	-
Cotton Seed Meal												
1983	460	460	410	370	340	350	350	360	370	370	370	370
1984	350	380	400	420	400	430	450	440	440	470	420	420
1985	440	480	480	480	490	490	480	450	450	460	450	420
1986 1/	420	440	-	-	-	-	-	-	-	-	-	-
1986 2/	248	266	-	262	-	-	266	-	-	274	-	-
1987 2/	278	-	-	278	-	-	286	-	-	300	-	-
	Dollars Per Gallon											
Gasoline, Unleaded Service Station												
1983	1.26	1.18	1.11	1.16	1.19	1.24	1.31	1.32	1.34	1.31	1.28	1.27
1984	1.24	1.22	1.21	1.23	1.24	1.26	1.25	1.24	1.24	1.25	1.26	1.26
1985	1.26	1.23	1.21	1.24	1.23	1.27	1.26	1.25	1.25	1.26	1.27	1.26
1986 1/	1.25	1.21	-	-	-	-	-	-	-	-	-	-
1986 2/	1.22	1.15	-	1.00	-	-	.95	-	-	.89	-	-
1987 2/	.86	-	-	.90	-	-	.97	-	-	1.02	-	-
Gasoline, Regular Bulk Delivery												
1983	1.18	1.11	1.02	1.07	1.13	1.19	1.26	1.27	1.26	1.25	1.23	1.22
1984	1.19	1.16	1.15	1.21	1.22	1.21	1.21	1.19	1.19	1.21	1.21	1.21
1985	1.20	1.16	1.16	1.18	1.19	1.21	1.20	1.19	1.20	1.20	1.20	1.19
1986 1/	1.20	1.14	-	-	-	-	-	-	-	-	-	-
1986 2/	1.13	1.06	-	.89	-	-	.87	-	-	.80	-	-
1987 2/	.81	-	-	.89	-	-	.90	-	-	.96	-	-
Diesel Fuel												
1983	1.12	1.07	1.02	1.01	.99	.97	.97	.99	.97	.98	.97	.96
1984	.97	.96	.95	.98	.96	.95	.94	.92	.91	.93	.93	.92
1985	.92	.91	.90	.91	.93	.92	.91	.90	.89	.90	.94	.97
1986 1/	.97	.89	-	-	-	-	-	-	-	-	-	-
1986 2/	.97	.86	-	.63	-	-	.54	-	-	.59	-	-
1987 2/	.64	-	-	.60	-	-	.69	-	-	.81	-	-

1/ State estimates were discontinued in March, 1986. 2/ Pacific Regional estimates (California, Oregon, and Washington) are made on a quarterly basis.

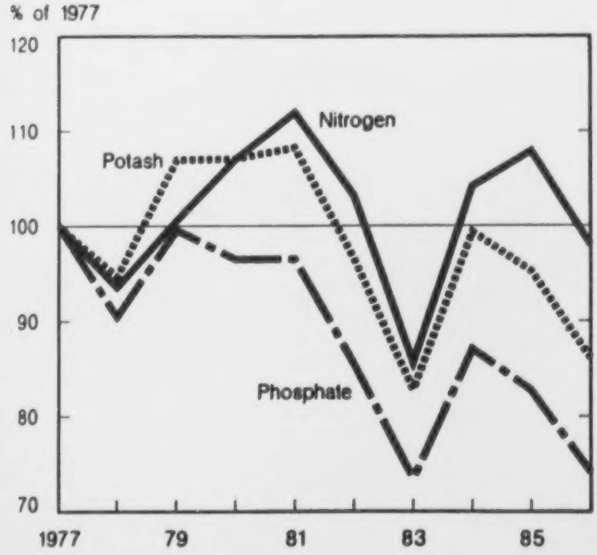
Prices Paid by Farmers, Northwest Region 1/

Item	Month	1983	1984	1985	1986 2/	1987 2/
		Dollars Per Ton				
Northwest Region 2/						
Anhydrous Ammonia	March	369	372	363	344	306
	May	366	359	362	-	-
	October	365	367	357	306	291
	December	358	354	359	-	-
Nitrogen Solutions, 32%	March	203	198	192	170	155
	May	196	197	190	-	-
	October	192	197	195	165	152
	December	198	190	194	-	-
Superphosphate, 44-46%	March	237	240	232	200	210
	May	230	238	232	-	-
	October	235	230	229	200	216
	December	235	230	227	-	-

1/ Northwest Region includes Idaho, Oregon, and Washington.
2/ Data for 1986 and 1987 were published in April and October.

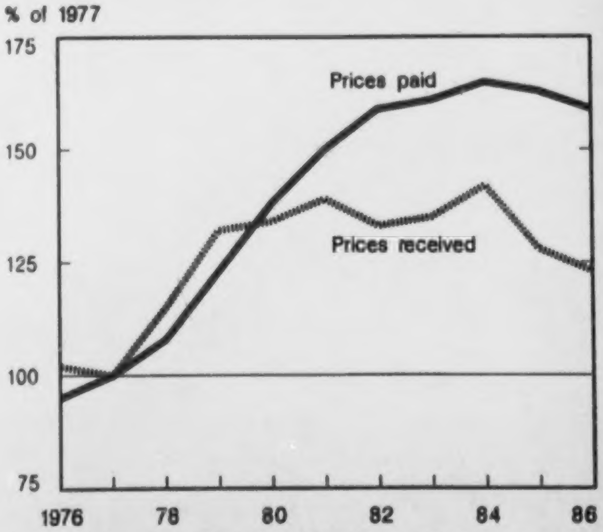
Farm Fertilizer Use, U.S.

Fertilizer use fell in 1986, reflecting declining crop acreage.



Prices Received and Paid by Farmers

Prices for major commodities were generally lower in 1986 than in 1985. Prices paid by farmers fell due to lower production costs, including interest payments, manufactured inputs, and feed.



Prices paid includes commodities, services, interest, taxes, and wage rates.

Index of Prices Received and Paid by Farmers, United States

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Prices Received						1977=100							
	All Farm Products												
1984	146	144	145	146	145	144	145	143	140	138	135	135	142
1985	135	134	134	131	130	128	125	121	121	123	127	127	128
1986	124	122	122	121	123	122	126	126	123	123	123	120	123
1987	121	122	122	125	129	130	129	127	129	127	132	127	127
	All Crops												
1984	140	138	139	140	145	144	145	143	139	137	128	125	139
1985	126	123	127	126	125	122	121	114	113	111	114	117	120
1986	113	111	112	114	115	109	107	103	99	99	100	98	107
1987	100	99	100	102	108	109	108	102	105	106	120	112	106
	All Livestock and Products												
1984	151	151	151	150	145	144	145	143	141	138	143	145	146
1985	144	145	141	136	134	134	130	128	128	134	138	137	136
1986	135	133	132	127	131	134	143	148	146	145	145	141	138
1987	141	144	142	147	148	149	148	150	152	147	143	141	146
Prices Paid 1/													
	Commodities, Services, Interest, Taxes, and Wage Rates 4/												
1984	164	164	165	165	165	165	165	165	164	164	164	164	165
1985	164	164	164	164	164	163	162	162	162	161	162	162	163
1986	161	161	-	159	-	-	159	-	-	158	-	-	159
1987	158	-	-	162	-	-	164	-	-	165	-	-	162
	Items Used for Production 4/												
1984	156	156	157	158	157	157	156	155	154	153	153	153	155
1985	154	154	153	153	152	151	150	149	148	148	149	149	151
1986	148	147	-	144	-	-	143	-	-	142	-	-	144
1987	142	-	-	147	-	-	148	-	-	150	-	-	147
	Interest 2/*					Taxes 3/*			Farm Services & Cash Rent*				
1984		257				132				152			
1985		237				133				150			
1986		219				134				145			
1987		207				136				146			
	Wage Rates 4/												
1984	151	151	151	151	151	151	154	154	154	150	150	150	152
1985	154	154	154	158	158	158	154	154	154	150	150	150	154
1986	150	150	-	164	-	-	166	-	-	159	-	-	160
1987	159	-	-	171	-	-	174	-	-	162	-	-	167
	Production Items, Interest, Taxes, and Wage Rates												
1984	162	162	163	164	163	163	162	161	161	160	160	160	162
1985	159	159	159	159	158	157	156	156	155	154	155	155	157
1986	153	152	-	151	-	-	150	-	-	148	-	-	150
1987	148	-	-	152	-	-	154	-	-	155	-	-	152
Ratio of Prices Received to Prices Paid 4/													
1984	89	88	88	88	88	87	88	87	85	84	82	82	86
1985	82	82	82	80	79	79	77	75	75	76	78	78	79
1986	77	76	76	76	77	77	79	79	77	78	78	76	77
1987	77	77	77	77	80	80	79	77	79	77	80	77	78

* Information collected yearly but is used as a component of monthly index.

1/ Estimates made on a quarterly basis starting with March 1986.

2/ Interest on indebtedness secured by farm real estate.

3/ Taxes on farm real estate.

4/ Ratio of index of prices received by farmers to index of prices paid, interest, taxes, and wage rates.

Gross and Net Farm Income, Washington 1/

Item	1982	1983	1984	1985	1986
	Million Dollars				
Cash Receipts From Marketings	2,865.9	2,840.3	3,115.5	2,834.4	2,793.0
Government Payments	77.0	153.8	171.0	155.1	298.7
Non-Money Income	322.2	322.4	337.4	331.0	290.6
Other Farm Income	125.4	126.9	141.1	154.5	184.9
Value of Inventory Adjustment	-23.9	110.2	-38.8	-118.4	36.9
Total Gross Farm Income	3,366.7	3,553.6	3,726.2	3,356.5	3,604.2
Farm Production Expenses	2,685.2	2,743.7	2,724.1	2,578.1	2,392.1
Total Net Farm Income	681.5	809.9	1,002.2	77,834.0	1,212.1

Farm Production Expenses, Washington 1/

Item	1982	1983	1984	1985	1986
	Million Dollars				
Intermediate Product Expense					
Farm Origin:					
Feed	351.0	415.1	383.6	341.1	300.7
Livestock	122.0	78.1	90.2	82.5	74.6
Seed	55.6	52.5	60.4	58.7	52.3
Total	528.6	545.7	534.2	482.3	427.6
Manufactured Input:					
Fertilizer and Lime	175.4	175.3	157.8	151.9	116.3
Pesticides	102.3	99.2	113.9	115.1	103.5
Fuel and Oil	126.6	120.4	114.7	105.7	76.9
Electricity	44.1	46.4	46.8	46.5	45.8
Total	448.4	441.3	433.2	419.2	342.5
Other	413.7	431.2	452.9	432.7	421.7
Total Intermediate	1,390.7	1,418.2	1,420.3	1,334.2	1,191.8
Interest	370.7	370.7	376.7	363.2	328.9
Contract and Hired Labor	366.2	353.3	352.8	355.4	358.4
Net Rent to Nonoperator Landlords	102.0	136.4	136.3	106.6	130.4
Capital Consumption	365.8	384.8	370.1	347.6	313.3
Business Taxes	89.7	80.1	67.9	71.1	69.3
Total Production Expense	2,685.1	2,743.5	2,724.1	2,578.1	2,392.1

1/ Source: Economic Indicators of the Farm Sector, State Financial Summary, 1986, ERS, USDA, February, 1988. Data may not add due to rounding.

Balance Sheet of Washington Farms, December 31 1/

Item 2/	1982	1983	1984	1985	1986
	Million Dollars				
Total Farm Assets	19,530.0	20,131.5	19,369.7	17,412.2	15,820.5
Total Farm Debts	3,688.9	3,778.8	3,782.1	3,661.5	3,281.7
Debt/Asset Ratio, Total	18.9	18.8	19.5	21.0	20.7

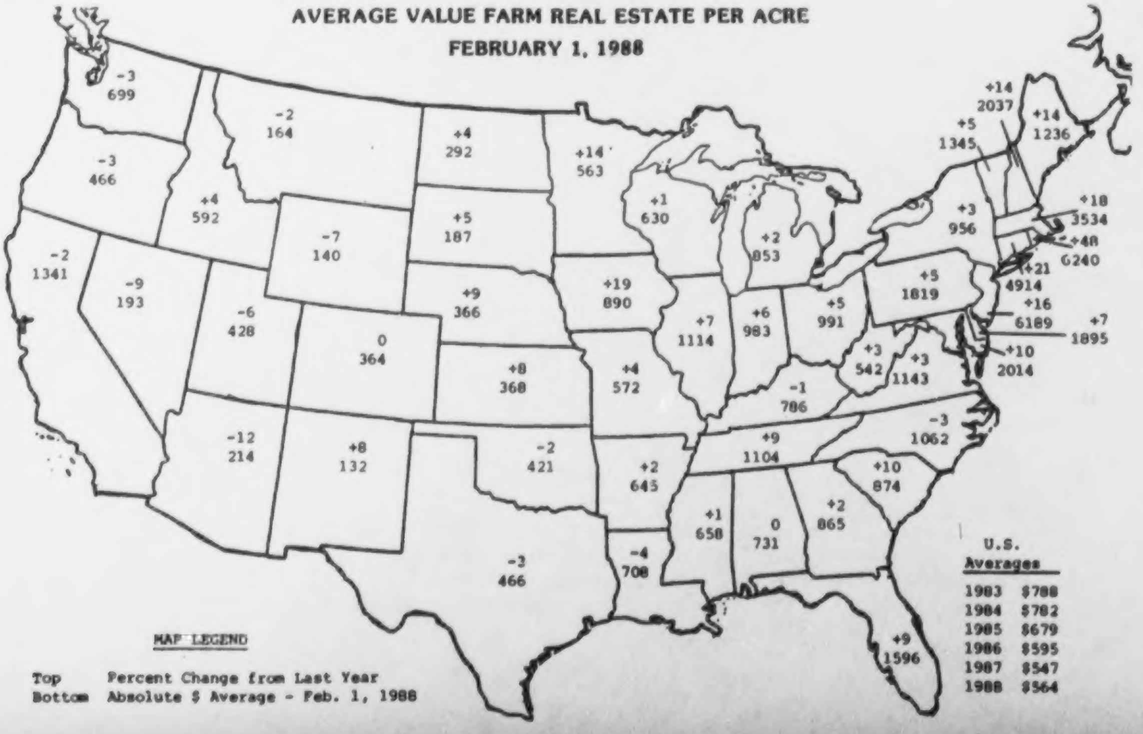
1/ Source: Economic Indicators of Farm Sector, State Financial Summary, 1986, ERS, USDA, February, 1988.

2/ Includes operator households.

Average Value of Farm Land and Buildings

Date/ Year	California	Idaho	Oregon	Washington	U.S. Average
	Dollars Per Acre				
Apr 1, 1982	1,900	839	705	922	823
1983	1,918	814	705	933	788
1984	1,918	814	698	961	782
1985	1,726	749	579	923	679
Feb 1, 1986	1,571	644	521	812	595
1987	1,366	567	479	723	547
1988	1,341	592	466	699	564

PERCENT OF CHANGE FEBRUARY 1, 1987-88
AVERAGE VALUE FARM REAL ESTATE PER ACRE
FEBRUARY 1, 1988


-3
699
-3
466
-2
1341
+4
592
-9
193
-2
164
-7
140
-6
428
+4
292
+5
187
+9
366
0
364
-12
214
+8
132
+8
368
-2
421
-3
466
+14
563
+19
890
+4
572
+2
645
-4
708
+1
630
+7
1114
+2
853
+6
983
+5
991
-1
786
+9
1104
+1
658
0
731
+2
865
+10
874
+9
1596
+3
542
+3
1143
-3
1062
+5
1819
+3
956
+14
2037
+5
1345
+14
1236
+18
3534
+48
6240
+21
4914
+16
6189
+7
1895
+10
2014
MAP LEGEND
Top Percent Change from Last Year
Bottom Absolute $ Average - Feb. 1, 1988
U.S. Averages
1983 $788
1984 $782
1985 $679
1986 $595
1987 $547
1988 $564

FARM LABOR

The number of farm workers in the Pacific region has historically peaked in July. This held true in 1988. The number of farm workers in July of 1988 was the highest of the year and was higher than the number of workers the previous July. This, and a more seasonal ripening of labor intensive crops, helped ease labor problems that were encountered in 1987. Wage rates were generally higher in April 1988 than a year earlier, but lower in July 1988 than July 1987. Hours worked per hired worker was down 11 percent in July 1988 from July 1987.

Wage Rates and Hours Worked, Pacific Region 1/

Year and Month	Hours Worked	Wage Rates			
		Field	Livestock	Field and Livestock	Composite Hourly Rate 2/
	Hours	Dollars per Hour			
1986					
April	38.6	4.70	5.27	4.80	4.77
July	34.0	4.15	-	4.19	4.51
October	41.8	5.09	5.64	5.16	4.85
1987					
April	39.9	4.89	5.14	4.93	4.93
July	42.6	4.90	5.37	4.94	4.96
October	41.0	6.11	5.56	6.04	5.40
1988					
April	41.2	5.01	5.42	5.08	5.18
July	36.7	4.60	5.32	4.68	4.67

1/ Pacific Region includes only Washington and Oregon.

2/ Includes all workers and all methods of pay except those workers paid by piece rate.

Number of Workers 1/

Year and Month	Washington		Pacific Region	
	Hired	All	Hired	All
	1,000 Workers			
1983				
July	56	92	96	172
1984				
July	46	78	93	159
October	40	60	61	170
1985				
April 2/	-	-	52	105
July	-	-	86	147
October	-	-	54	102
1986				
April	-	-	39	87
July	-	-	103	185
October	-	-	43	110
1987				
April	-	-	45	120
July	-	-	87	150
October	-	-	58	107
1988				
April	-	-	46	98
July	-	-	108	180

1/ The quarterly farm labor report was dropped in April 1981 and reinstated in July 1984 except for the January quarter.

2/ The USDA stopped publishing data by state in 1984. After that, data was published by region with Washington and Oregon forming the Pacific Region.

FLORICULTURE

The total wholesale value of floriculture crops in Washington rose to $38.6 million in 1987, up 9 percent from 1986. Washington growers used more area to produce these crops in 1987 than in 1986. They used 5.1 million square feet of covered area and 3,306 acres of open ground to produce floriculture crops in 1987.

The open ground was used to produce cut flowers consisting mainly of tulips, daffodils, and irises. Total wholesale value of other cut flowers rose 26 percent from 1986 to $10.4 million.

Other flowering and foliage type bedding plants were grown on 1.3 million square feet of covered area with a total wholesale value of $5.6 million.

An estimate of the area grown under glass greenhouses was initiated in 1987. Please see table footnotes for specific changes.

Growers, Growing Area, and Value of Sales

Year	Total Number of Growers	Covered Greenhouses			Total
		Glass	Fiberglass	Film Plastic	
	1,000 Square Feet				
1985 1/	-	-	-	-	3,971
1986	119		2,237 2/	2,205	4,442
1987	120	1,585 3/	948	2,461	4,994

Year	Shade and Temporary Cover	Total Covered	Open Ground	Total Wholesale Value
	1,000 Square Feet		Acres	$1,000
1985	45	4,016	1,200	33,340
1986	43	4,485	2,030	35,462
1987	79	5,073	3,306	38,631

1/ All greenhouse space only for 1985.
2/ Glass greenhouses included in fiberglass and other rigid greenhouses.
3/ Estimate started with 1987 crop.

Production, Sales, and Price

Item	Unit	Producers			Area in Production			Quantity Sold		
		1985	1986	1987	1985	1986	1987	1985	1986	1987
			Number		1,000 Square Feet			1,000 Units		
Cut Hybrid Tea Roses	Blooms	4	4	5	227	133	133	1,265	1,303	1,334
Chrysanthemums:										
Standard	Blooms	7	6	6	17	17	16	48	39	43
Pom Pon	Bunches	6	9	7	69	66	61	82	75	63
Potted 2/	Pots	10	9	14	38	48	58	75	98	96
Hardy Garden	Pots	32	38	41	385	495	469	614	694	607
Other Cut Flowers		N/A	19	20	41,029	54,620	55,835	-	-	-
Geraniums: 2/										
Bedding Plants	Flats	17	21	14	150	131	81	157	109	50
Potted, Cuttings	Pots	67	72	71	535	653	550	1,877	1,992	1,685
Potted, Seed	Pots	21	32	32	131	133	200	462	514	689
Hanging Baskets:										
Foliage 1/	Baskets	15	25	31	-	-	-	149	243	226
Flowering 2/	Baskets	50	78	84	-	-	-	249	257	289
Bedding Plants										
Other Flowering and Foliage Type 2/	Flats	56	71	77	1,590	1,453	1,325	853	877	869
Foliage Type	Pots	39	39	55	812	849	1,187	3,792	3,727	4,449
Vegetable Type 2/3/	Flats	58	57	61	239	289	291	184	174	183
Vegetable Type 2/3/	Pots	28	34	35	214	214	260	724	645	848
Easter Lilies 2/	Pots	11	13	12	95	89	71	142	154	130
Poinsettia 2/	Pots	36	52	55	1,130	1,294	1,511	957	932	1,035

1/ 1985 and 1986 data are not comparable due to changing the minimum time for holding plants purchased from others for resale from 12 weeks to 4 weeks.

2/ 1985 and 1986 data are not comparable due to changing the minimum time for holding plants purchased from others for resale from 6 weeks to 4 weeks.

3/ Does not include vegetable transplants grown for use in commercial vegetable production.

- Data not collected.

N/A Snapdragons were reported separately in 1985, and were combined to form one category in 1986.

Production, Sales, and Price (continued)

Item	Unit	Value of Sales at Wholesale			Percent of Sales at Wholesale			Wholesale Price 1/		
		1985	1986	1987	1985	1986	1987	1985	1986	1987
		$1,000			Percent			Dollars/Unit		
Cut Hybrid Tea Roses	Blooms	894	678	920	99	99	98	.71	.52	.69
Chrysanthemums:										
Standard	Blooms	42	31	32	83	83	85	.88	.79	.74
Pom Pon	Bunches	143	146	154	93	90	83	1.74	1.95	2.45
Potted 3/	Pots	256	394	400	98	93	91	3.41	4.02	4.17
Hardy Garden	Pots	921	743	637	89	83	95	1.05	1.07	.83
Other Cut Flowers		5,590	8,297	10,410	97	95	95	-	-	-
Geraniums: 3/										
Bedding Plants	Flats	416	519	225	97	92	80	2.65	4.76	5.10
Potted, Cuttings	Pots	2,196	2,530	2,211	76	63	75	1.17	1.27	1.31
Potted, Seed	Pots	393	524	484	96	54	92	.85	1.02	.64
Hanging Baskets:										
Foliage 2/	Baskets	542	887	897	93	97	94	3.64	3.65	3.97
Flowering 3/	Baskets	1,708	2,408	2,754	88	93	88	6.86	9.37	9.53
Bedding Plants										
Other Flowering and Foliage Type 3/	Flats	6,218	5,964	5,631	86	87	85	7.29	6.80	6.48
Foliage Type	Pots	4,020	3,019	3,424	90	91	94	1.06	.81	.77
Vegetable Type 3/4/	Flats	1,275	1,302	1,166	87	88	84	6.93	7.48	6.37
Vegetable Type 3/4/	Pots	688	387	708	92	93	83	.95	.60	.73
Easter Lilies 3/	Pots	559	531	499	95	95	93	3.94	3.45	3.84
Poinsettia 3/	Pots	3,273	3,542	3,429	89	80	89	3.42	3.80	3.31

1/ Equivalent wholesale value of all sales.

2/ 1985 and 1986 data are not comparable due to changing the minimum time for holding plants purchased from others for resale from 12 weeks to 4 weeks.

3/ 1985 and 1986 data are not comparable due to changing the minimum time for holding plants purchased from others for resale from 6 weeks to 4 weeks.

4/ Does not include vegetable transplants grown for use in commercial vegetable production.

- Data not collected.

WASHINGTON AGRICULTURAL EXPORTS

Marketing is the key to successful agriculture. The export market is a vital link for the United States, and especially Washington, in marketing agricultural commodities. Washington is in an excellent position to utilize the export market to sell a wide variety of products. The State Department of Agriculture and industry groups are aggressively pursuing these markets.

The Washington Agricultural Statistics Service initiated the publication of export information in 1986 with data related to calendar years 1984 and 1985. Information was extracted from the U.S. Department of Commerce, Bureau of Census data tapes. The information for the United States is the same data published for the U.S. total. Northwest ports data were selected from these computer tapes to include all ports in Washington and Oregon. These data are presented in their entirety in a separate publication, WASHINGTON AGRICULTURAL EXPORTS, which is available by request, free of charge.

Data presented as export information relate to a calendar year. Export values represent the value of products after arrival at the port of exportation. Values include transportation, insurance and other costs (CIF port of export). Costs incurred beyond the U.S. port of exportation are not included. Information presented in the following tables documents the importance of export markets to the agricultural sector, as well as the overall economy.

Preliminary 1987 data for the top ranked countries show an increase for both the United States and Northwest Port totals. The Northwest Port total for 1987 for these countries increased 12 percent. Japan was the leading country for both the U.S. and the Northwest. Northwest Ports accounted for almost one-fourth of the total value of products exported to Japan during 1987. Japan also accounted for about 40 percent of the total value of the Northwest Port total. South Korea was the second ranking country and had 19 percent of the value of Northwest Ports. Taiwan and Canada were the third and fourth ranked countries with 10 and 8 percent, respectively.

Data are presented for the top six commodities sent to each country and the percentage (of the U.S. total) each commodity represents. Each commodity is listed as it appears in the Census data files. For example, wheat is one of the major commodities and may be listed as unmilled; unmilled, donated; or wheat flour.

Data for 1984-1986 for Washington present the relative importance of individual commodities. Washington data for 1987 are not available at this time and will be presented in WASHINGTON AGRICULTURAL EXPORTS. Data presented for the U.S. and Northwest ports includes 1987. Our staff will review and refine estimates using the Northwest ports data as a benchmark to determine the contribution of Washington's agricultural commodities.

Wheat is the number one commodity of export for Washington and accounted for over 44% (port value) of the State's agricultural exports in 1986. Beef cattle and products, and apples were ranked 2nd and 3rd, respectively, each with a 7% share, well behind wheat. Other commodities of importance were potatoes, hops, dry peas and lentils, and seed.

ANNUAL EXPORTS BY COUNTRY

U.S. AND NORTHWEST PORT DISTRICT TOTALS

COUNTRY	U.S. RANK			U.S. PORTS-VALUE			NW PORTS-VALUE			NW % OF U.S.		
	85	86	87	1985	1986	1987	1985	1986	1987	1985	1986	1987
				$ 1000			$ 1000					
JAPAN	1	1	1	5,705,569	5,629,674	6,325,110	1,518,688	1,467,949	1,543,037	26.62	26.08	24.40
SOUTH KOREA	6	4	3	1,429,610	1,306,945	1,859,520	623,154	619,076	743,849	43.59	47.37	40.00
TAIWAN	7	5	5	1,158,734	1,115,373	1,257,215	548,422	445,400	385,057	47.33	39.93	30.63
CANADA	5	3	4	1,479,493	1,439,910	1,715,614	262,127	282,052	308,949	17.72	19.59	18.01
SAUDI ARABIA	18	16	16	309,997	351,107	448,133	17,748	107,421	216,014	5.73	30.59	48.20
EGYPT	8	8	9	788,814	720,402	662,058	62,278	32,219	148,987	7.90	4.47	22.50
CHINA	--	--	19	---	---	360,100	---	---	139,831	---	---	38.83
PHILLIPPINES	24	24	25	232,116	195,998	208,269	166,474	100,434	108,403	71.72	51.24	52.05
HONG KONG	21	19	18	288,462	302,867	369,124	53,096	59,588	79,054	18.41	19.67	21.42
U.K.	13	9	11	530,159	667,264	640,199	59,946	89,646	77,997	11.31	13.43	12.18
FRANCE	16	14	13	394,313	449,521	563,272	26,786	42,720	56,034	6.79	9.50	9.95
NETHERLANDS	3	2	2	1,781,185	1,967,523	1,872,159	18,537	29,596	30,661	1.04	1.50	1.64
WEST GERMANY	9	7	7	704,711	820,084	1,098,436	15,950	23,105	24,555	2.26	2.82	2.24
BELGIUM	17	17	17	351,695	349,019	417,789	6,702	9,087	11,739	1.91	2.60	2.81
BRAZIL	14	13	22	464,889	547,495	264,839	9,073	16,557	11,131	1.95	3.02	4.20
MEXICO	4	6	6	1,650,909	1,064,523	1,176,740	21,854	6,480	9,882	1.32	.61	.84
ITALY	12	10	10	585,116	661,038	646,877	8,153	10,802	8,918	1.39	1.63	1.38
SPAIN	10	11	12	627,453	649,447	600,804	5,039	9,169	7,192	.80	1.41	1.20
VENEZUELA	11	15	15	626,404	437,604	475,564	4,024	2,067	3,611	.64	.47	.76
PORTUGAL	15	20	21	429,364	291,909	274,228	78	84	1,809	.02	.03	.66
U.S.S.R.	2	12	8	1,656,991	647,463	922,976	0	0	1,207	.00	.00	.13
IRAQ	19	18	14	304,553	324,341	489,127	6,503	182	550	2.14	.06	.11
ISRAEL	22	22	23	264,581	246,409	259,412	4	136	348	.00	.06	.13
MOROCCO	--	26	24	---	166,283	211,486	---	13	26	---	.01	.01
ALGERIA	25	21	20	217,638	279,783	301,623	0	0	0	.00	.00	.00
NIGERIA	20	--	--	302,389	---	---	60	---	---	.02	---	---
INDONESIA	--	25	--	---	175,504	---	---	60,839	---	---	34.67	---
PAKISTAN	23	23	--	248,720	220,370	---	54,026	80,054	---	21.72	36.33	---
TOTAL	25	26	25	22,533,865	21,027,856	23,420,674	3,488,722	3,494,676	3,918,841	15.48	16.62	16.73

-- Data not available and not a ranked country.

1987 ANNUAL EXPORTS, U.S. AND NORTHWEST PORT DISTRICT TOTALS, TOP RANKED COMMODITIES BY COUNTRY

COUNTRY	U.S. RANK 1987	1987 PORT VALUES		TOP RANK COMMODITIES # ONE			# TWO			# THREE		
		U.S.	NW	COMMODITY	VALUE	%	COMMODITY	VALUE	%	COMMODITY	VALUE	%
		$ 1000			(1,000)			(1,000)			(1,000)	
JAPAN	1	6,325,110	1,543,037	YELLOW CORN.......	1,020,935	16	SOYBEANS,EXC SEED.	783,512	12	BEEF,FRSH,W/O BONE	528,088	8
NETHERLANDS	2	1,872,159	30,661	SOYBEANS,SEC SEED.	792,890	42	CORN GLUTEN FEED..	294,417	16	SOYBEAN OIL CAKE..	145,577	8
SOUTH KOREA	3	1,859,520	743,849	CATTLE HIDES,WHOLE	577,469	31	YELLOW CORN.......	355,924	19	COTTON,NT CRD.....	282,756	15
CANADA	4	1,715,614	308,949	SOYBEAN OIL CAKE..	158,543	9	WHOLE SKINS,OTHER.	65,585	4	ORANGES,FRESH.....	54,415	3
TAIWAN	5	1,257,215	385,057	SOYBEANS,EXC SEED.	379,935	30	YELLOW CORN.......	249,914	20	CATTLE HIDES,WHOLE	172,259	14
MEXICO	6	1,176,740	9,882	YELLOW CORN.......	268,299	23	SOYBEANS,EXC SEED.	214,482	18	CATTLE HIDES,WHOLE	65,841	6
WEST GERMANY	7	1.098,436	24,555	SOYBEANS,EXC SEED.	285,817	26	SOYBEAN OIL CAKE..	145,477	13	ALMOND,SHL,NT BLNC	100,808	9
U.S.S.R.	8	922,976	1,207	WHEAT,UNMILLED....	389,148	42	YELLOW CORN.......	381,460	41	SOYBEAN OIL CAKE..	57,547	6
EGYPT	9	662,058	148,987	WHEAT,UNMILLED....	231,843	35	YELLOW CORN.......	117,601	18	WHEAT FLOUR.......	109,642	17
ITALY	10	646,877	8,918	SOYBEAN OIL CAKE..	143,842	22	SOYBEANS,EXC SEED.	76,179	12	COTTON,NT CRD.....	64,806	10
U.K.	11	640,199	77,997	SOYBEANS,EXC SEED.	73,394	11	HORSES,NOT BREDING	40,756	6	NAVY/PEA BEANS....	34,426	5
SPAIN	12	600,804	7,192	SOYBEANS,EXC SEED.	324,518	54	YELLOW CORN.......	47,260	8	CORN GLUTEN FEED..	28,565	5
FRANCE	13	563,272	56,034	SOYBEANS,EXC SEED.	85,254	15	CORN GLUTEN FEED..	35,183	6	HORSES,NOT BREDING	35,128	6
IRAQ	14	489,127	550	HD RICE,LG GRN....	118,549	24	WHEAT,UNMILLED....	79,921	16	YELLOW CORN.......	36,420	7
VENEZUELA	15	475,564	3,611	SOYBEAN OIL CAKE..	144,301	30	WHEAT,UNMILLED....	76,047	16	SORGHUM,EXC SEED..	75,209	16
SAUDI ARABIA	16	448,133	216,014	BARLEY,EXC MALT...	202,409	45	RICE,LG GR,PRBL...	69,917	16	WHEAT,UNMILLED....	33,907	8
BELGIUM	17	417,789	11,739	SOYBEANS,EXC SEED.	177,410	42	YELLOW CORN.......	39,162	9	RICE,LG GR,PRBL...	27,422	7
HONG KONG	18	369,124	79,054	CHICKEN,PIECE,FRSH	52,606	14	ORANGES,FRESH.....	47,992	13	COTTON,NT CRD.....	18,089	5
CHINA	19	360,100	139,831	WHEAT,UNMILLED....	139,202	39	YELLOW CORN.......	94,926	26	SOYBEANS,EXC SEED.	85,895	24
ALGERIA	20	301,623	0	WHEAT,UNMILLED....	175,848	58	YELLOW CORN.......	60,456	20	SOYBEAN OIL CAKE..	27,223	9
PORTUGAL	21	274,228	1,809	SOYBEANS,EXC SEED.	119,211	43	CORN GLUTEN FEED..	41,769	15	YELLOW CORN.......	30,385	11
BRAZIL	22	264,839	11,131	SOYBEANS,EXC SEED.	87,974	33	NONFAT DRY MILK...	49,747	19	YELLOW CORN.......	42,234	16
ISRAEL	23	259,412	348	SOYBEANS,EXC SEED.	88,236	34	WHEAT,UNMILLED....	61,031	24	YELLOW CORN.......	34,913	13
MOROCCO	24	211,486	26	WHEAT,UNMILLED....	151,063	71	SOYBEAN OIL,CRUDE.	20,998	10	YELLOW CORN.......	10,147	5
PHILLIPPINES	25	208,269	108,403	WHEAT,UNMILLED....	95,130	46	COTTON,NT CRD.....	34,350	16	SOYBEAN OIL CAKE..	18,143	9

COUNTRY	U.S. RANK 1987	1987 PORT VALUES		TOP RANK COMMODITIES # FOUR			# FIVE			# SIX		
		U.S.	NW	COMMODITY	VALUE	%	COMMODITY	VALUE	%	COMMODITY	VALUE	%
		$ 1000			(1,000)			(1,000)			(1,000)	
JAPAN	1	6,325,110	1,543,037	COTTON,NT CRD.....	365,635	6	WHEAT,UNMILLED....	352,280	6	SALMON,SOCKEYE,RED	345,385	5
NETHERLANDS	2	1,872,159	30,661	OTH CORN PROD/BY..	116,245	6	LIVESTK FEED,NSPF.	51,681	3	PEANUTS,SHELD,OTH.	50,510	3
SOUTH KOREA	3	1,859,520	743,849	SOYBEANS,EXC SEED.	232,188	12	WHEAT,UNMILLED....	213,349	11	TALLOW,INEDIBLE...	23,941	1
CANADA	4	1,715,614	308,949	GRAPES,FRESH......	51,232	3	LETTUCE,FRESH.....	40,090	2	TOMATOES,FRESH....	40,067	2
TAIWAN	5	1,257,215	385,057	WHEAT,UNMILLED....	103.578	8	COTTON,NT CRD.....	68,723	5	COTTON,NT CRD.....	66,209	5
MEXICO	6	1,176,740	9,882	SORGHUM,EXC SEED..	56,120	5	TALLOW,INEDIBLE...	51,970	4	SUNFLOWER SEDS,OTH	41,566	4
WEST GERMANY	7	1,098,436	24,555	COTTON NT CRD.....	70,843	6	OTH CORN PROD/BY..	69,353	6	CORN GLUTEN FEED..	36,359	3
U.S.S.R.	8	922,976	1,207	SOYBEANS,EXC SEED.	42,705	5	ALMOND,SHL,NT BLNC	27,360	3	TALLOW,INEDIBLE...	18,787	2
EGYPT	9	662,058	148,987	SOYBEAN OIL CAKE..	48,515	7	TALLOW,INEDIBLE...	45,495	7	COTTON,NT CRD.....	20,638	3
ITALY	10	646,877	8,918	WHEAT,UNMILLED....	44,379	7	CORN GLUTEN FEED..	34,209	5	CORN SEED,EXC SWT.	27,397	4
U.K.	11	640,199	77,997	MOHAIR............	30,272	5	PEANUTS,SHELLED...	27,034	4	GRAPES (RAISINS)..	23,985	4
SPAIN	12	600,804	7,192	WALNUT,NT SHL,RSTD	25,188	4	TALLOW,INEDIBLE...	18,141	3	SOYBEAN OIL CAKE..	17,389	3
FRANCE	13	563,272	56,034	HORSEMEAT,FRESH...	28,310	5	ALMOND,SLD,NT BLNC	27,977	5	GRAPEFRUIT,FRESH..	27,884	5
IRAQ	14	489,127	550	SOYBEAN OIL CAKE..	34,288	7	SUGAR,CANE,BEET...	32,456	7	POULTRY FEEDS,PREP	29,127	6
VENEZUELA	15	475,564	3,611	SOYBEANS,EXC SEED.	48,997	10	SUNFLOWER SEED OIL	21,206	4	COTTONSEED OIL....	20,241	4
SAUDI ARABIA	16	448.133	216,014	SOYBEAN OIL CAKE..	26,661	6	YELLOW CORN.......	26,452	6	CORN OIL,OTHER....	25,083	6
BELGIUM	17	417,789	11,739	COTTON,NT CRD.....	26,620	6	HORSEMEAT,FRESH...	24,722	6	WHEAT,UNMILLED....	23,530	6
HONG KONG	18	369,124	79,054	WHEAT,UNMILLED....	16,149	4	APPLES,FRESH......	13,545	4	MINK,WHOLE SKINS..	11,891	3
CHINA	19	360,100	139,831	RAW SUGAR.........	15,636	4	CATTLE HIDES,WHOLE	10,612	3	CHICKENS..........	2,221	1
ALGERIA	20	301,623	0	TALLOW,INEDIBLE...	7,282	2	PINTO BEANS.......	5,037	2	COTTON NT CRD.....	4,969	2
PORTUGAL	21	274,228	1,809	COTTON,NT CRD.....	16,680	6	WHEAT,UNMILLED....	12,946	5	OTH CORN PROD/BY..	6,347	2
BRAZIL	22	264,839	11,131	BEEF,FRESH,W/BONE.	19,279	7	WHEAT,UNMILLED....	9,644	4	CATTLE HIDES,WHOLE	8,360	3
ISRAEL	23	259,412	348	GRAIN SORGHUM.....	22,741	9	BARLEY,EXC MALT...	5,971	2	COTTON NT CRD.....	3,924	2
MOROCCO	24	211,486	26	COTTON,NT CRD.....	6,578	3	SOYBEANS,EXC SEED.	5,223	2	WHEAT,UNMILLED....	3,427	2
PHILLIPPINES	25	208,269	108,403	NONFAT DRY MILK...	11,680	6	WHEAT,UNMILLED,DON	9,236	4	NONFAT DRY MILK...	4,518	2

Washington's Leading Agricultural Exports Valued at Port of Exportation, Calendar Years 1984-86

Commodity	Commodity Ranking 1986	Value 1984	Value 1985	Value 1986	1986 as Percent of 1985
			1,000 Dollars		
Wheat	1	583,424	477,306	399,810	84
Cattle and Calves	2	53,854	57,959	67,068	116
Apples 1/	3	99,047	81,429	66,229	81
Potatoes	4	34,438	35,641	43,410	122
Hops	5	41,911	42,959	42,044	98
Dry Peas & Lentils	6	32,837	41,595	38,429	92
All Seeds	7	30,101	26,197	30,957	118
Dairy Cattle & Products	8	34,264	34,646	30,819	89
Barley	9	38,078	16,176	25,589	158
Other Hay & Straw	10	15,433	15,679	20,719	132
Alfalfa	11	11,235	10,093	17,713	175
Mint Oil	12	14,088	16,618	17,640	106
Sweet Corn	13	11,104	11,662	14,875	128
Sweet Cherries	14	9,656	7,472	14,863	199
Pear	15	9,493	8,340	10,461	125
Nursery Products	16	8,498	7,993	9,530	119
Grapes	17	6,746	7,544	8,228	109
Asparagus	18	10,209	8,677	4,696	54
Green Peas, Processed	19	2,715	2,377	4,034	170
Onions	20	8,983	3,245	3,837	118
Poultry	21	3,621	3,329	3,449	104
Dry Beans	22	4,419	4,138	2,988	72
Prunes & Plums	23	1,456	1,355	1,656	122
Peaches & Nectarines	24	954	711	1,506	212
Carrots	25	1,599	852	1,173	138
Other Commodities		15,528	13,904	21,521	155
Washington Total		1,083,691	937,897	903,244	96
U.S. Exports		37,804,000	29,026,000	26,046,000	90

1/ Includes value of fresh shipments, dried apples, and apple juice.
Reprinted from 1986 WASHINGTON AGRICULTURAL EXPORTS.

Usual Planting and Harvesting Dates, Washington

Crop	Usual Planting Dates	Usual Harvesting Dates		
		Begin	Most Active	End
Fall Barley	Sep 1-Nov 10	Jul 5	Jul 15-Aug 10	Aug 20
Spring Barley	Mar 1-May 15	Jul 15	Jul 25-Aug 25	Sep 15
Dry Beans	May 1-Jun 10	Aug 20	Sep 5-Sep 30	Nov 1
Lentils	Apr 10-May 10	Jul 15	Jul 25-Aug 25	Sep 1
Dry Peas	Apr 5-May 1	Jul 15	Jul 25-Aug 25	Sep 1
Grain Corn	Apr 5-May 20	Oct 15	Oct 25-Nov 20	Dec 15
Silage Corn	Apr 5-May 20	Sep 1	Sep 5-Oct 5	Oct 15
Alfalfa Hay		May 25		Oct 15
Other Hay		May 25		Sep 15
Oats	Mar 10-Apr 10	Jul 15	Aug 1-Aug 25	Sep 10
Winter Wheat	Aug 15-Nov 20	Jul 10	Jul 25-Aug 25	Sep 20
Spring Wheat	Mar 1-May 15	Jul 15	Jul 25-Aug 20	Sep 30
Asparagus (F)		Apr 10	May 5-Jun 5	Jun 21
Snap Beans (P)	May 10-Jun 21	Jul 20	Aug 5-Sep 1	Oct 1
Carrots (F)	Apr 15-Jul 30	Jul 30	Sep 1-Nov 1	Dec 31
Carrots (P)	Apr 15-Jul 30	Jul 30	Sep 1-Nov 1	Dec 31
Sweet Corn (F)	Apr 15-Jun 5	Jul 25	Aug 1-Sep 20	Sep 30
Sweet Corn (P)	Apr 10-Jun 25	Aug 20	Sep 1-Oct 5	Oct 20
Lettuce (F)	Mar 24-Aug 15	Jun 25	Sep 10-Nov 1	Nov 15
Onions	Transplant:			
Non-storage--Fall	Oct 15-Dec 10	Jul 5	Jul 20-Aug 5	Aug 15
--Spring	Mar 20-Apr 5	Jun 20	Jul 5-Aug 1	Sep 1
Storage	Mar 25-Apr 15	Sep 10	Sep 15-Oct 5	Oct 20
Green Peas (P)	Apr 1-Jun 20	Jun 15	Jun 25-Aug 15	Aug 31

Crop	Usual Dates of Full Bloom	Usual Harvesting Dates		
		Begin	Most Active	End
Cultivated Blackberries	Jun 15-Jul 10	Jul 10	Aug 15-Sep 20	Oct 10
Blueberries	May 10-May 15	Jul 5	Aug 5-Sep 15	Oct 5
Cranberries	Jun 10-Jun 15	Oct 1	Oct 5-Oct 10	Nov 1
Currants	Apr 1-Apr 5	Jul 5	Jul 10-Jul 20	Jul 25
Raspberries	May 10-May 15	Jun 25	Jul 15-Jul 20	Aug 15
Strawberries	Apr 10-May 15	Jun 10	Jun 25-Jul 5	Jul 20
Apples	Apr 5-May 10	Jul 15-Oct 5	Sep 5-Oct 25	Nov 1
Apricots	Mar 20-Apr 5	Jun 25-Jul 20	Jul 5-Jul 25	Aug 1
Sweet Cherries	Apr 10-Apr 25	Jun 10-Jul 1	Jun 15-Jul 15	Jul 20
Grapes	May 25-Jul 10	Sep 15-Oct 10	Sep 15-Oct 20	Oct 20
Peaches	Apr 10-Apr 20	Jul 10-Aug 1	Aug 10-Sep 10	Sep 20
Bartlett Pears	Apr 5-May 5	Aug 10-Aug 30	Aug 15-Sep 10	Sep 20
Other Pears	Apr 5-May 5	Sep 5-Sep 20	Sep 20-Oct 20	Nov 1
Prunes	Apr 15-Apr 20	Aug 10-Aug 20	Aug 20-Sep 5	Oct 1

(F)=Fresh market
(P)=Processing market

FIELD CROPS

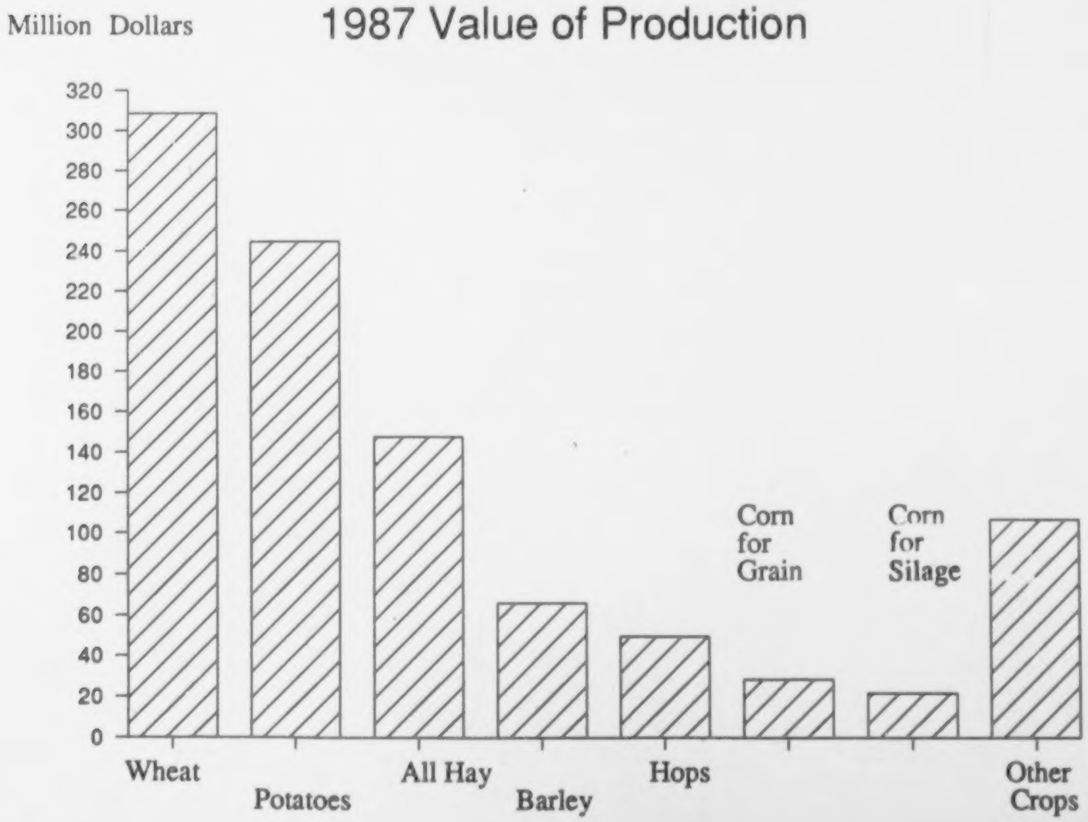
Field crops represented one-third of the State's value of production in 1987. Wheat continued its dominance as the state's number one field crop, and as the fourth among all Washington agricultural commodities. Other important field crops included potatoes, hay, barley, hops, and corn. In 1987, their combined value was $972 million.

Winter wheat seeding in Washington began during the final week of August to 1.9 million acres. Early winter snow cover in eastern Washington was scarce throughout November and December causing much concern to wheat growers. The little snow that did fall was melted by record warm temperatures in late January. Warmer temperatures continued into March and April, allowing most of the winter wheat to escape without frost injury.

The early warm temperatures also allowed for early seeding of spring grains. By mid-April, 90 percent of spring wheat and 30 percent of the potatoes were planted.

Except for southeast Washington, moisture and growing conditions were favorable throughout the spring months and into the summer. By the end of May, alfalfa haying was in progress, and heading of wheat and barley was ahead of normal.

Cool weather in June slowed growth and development of field crops. August had ideal threshing conditions for cereal grain harvest with only minimal interruptions from light rain. Pea, lentil, and potato harvest was also underway by mid-August with good yields.



Field Crop Acreage, Production, Price, and Value

Crop and Year	Acreage		Yield Per Acre	Unit	Production	Average Price Per Unit	Value of Production
	Planted	Harvested					
	1,000 Acres				1,000 Units	Dollars	1,000 Dollars
Wheat, Winter							
1983	2,850	2,500	65.0	Bu.	162,500	-	-
1984	2,600	2,400	62.0	Bu.	148,800	-	-
1985	2,550	2,400	48.0	Bu.	115,200	-	-
1986	2,250	2,100	49.0	Bu.	102,900	-	-
1987	1,900	1,825	57.0	Bu.	104,025	-	-
Wheat, Spring							
1983	200	190	53.0	Bu.	10,070	-	-
1984	220	210	55.0	Bu.	11,550	-	-
1985	300	290	45.0	Bu.	13,050	-	-
1986	320	310	45.0	Bu.	13,950	-	-
1987	200	190	54.0	Bu.	10,260	-	-
Wheat, All							
1983	3,050	2,690	64.2	Bu.	172,570	3.69	636,783
1984	2,820	2,610	61.4	Bu.	160,350	3.45	553,208
1985	2,850	2,690	47.7	Bu.	128,250	3.41	437,333
1986	2,570	2,410	48.5	Bu.	116,850	2.51	293,294
1987	2,100	2,015	56.7	Bu.	114,285	2.70	308,570
Barley							
1983	880	850	64.0	Bu.	54,400	2.58	140,352
1984	1,000	980	65.0	Bu.	63,700	2.25	143,325
1985	1,200	1,180	48.0	Bu.	56,640	1.95	110,448
1986	920	900	50.0	Bu.	45,000	1.67	75,150
1987	660	645	55.0	Bu.	35,475	1.85	65,629
Oats							
1983	75	33	63.0	Bu.	2,079	1.61	3,347
1984	75	30	68.0	Bu.	2,040	1.80	3,672
1985	70	33	65.0	Bu.	2,145	1.50	3,218
1986	70	33	65.0	Bu.	2,145	1.10	2,360
1987	75	35	66.0	Bu.	2,310	1.35	3,119
Corn for Grain 1/							
1983	160	110	160.0	Bu.	17,600	3.62	63,712
1984	200	150	155.0	Bu.	23,250	3.00	69,750
1985	190	135	160.0	Bu.	21,600	2.65	57,240
1986	170	120	170.0	Bu.	20,400	1.80	36,720
1987	120	80	170.0	Bu.	13,600	2.10	28,560
Corn for Silage							
1983	-	50	23.0	Tons	1,150	25.00	28,750
1984	-	50	23.0	Tons	1,150	23.00	26,450
1985	-	55	22.0	Tons	1,210	22.00	26,620
1986	-	50	24.0	Tons	1,200	22.50	27,000
1987	-	40	25.0	Tons	1,000	22.00	22,000
Dry Beans							
1983	16	16	22.2	Cwt.	355	18.30	6,497
1984	35	34	20.8	Cwt.	707	17.80	12,585
1985	34	33	21.5	Cwt.	710	18.20	12,922
1986	32	31	21.6	Cwt.	670	17.80	11,926
1987	36	35	21.3	Cwt.	746	14.30	10,668
Dry Edible Peas 2/							
1983 3/	-	117.0	18.2	Cwt.	2,129	9.00	19,161
1984 3/	-	123.0	14.8	Cwt.	1,820	8.65	15,743
1985 3/	-	85.0	16.6	Cwt.	1,411	9.20	12,981
1986	110.0	109.0	18.4	Cwt.	2,006	9.00	18,054
1987	107.0	106.0	20.0	Cwt.	2,120	7.00	14,840
Lentils							
1983 3/	-	79.0	9.3	Cwt.	735	13.30	9,775
1984 3/	-	55.0	8.3	Cwt.	457	26.00	11,882
1985 3/	-	84.0	7.5	Cwt.	630	29.00	18,270
1986	113.0	112.0	12.2	Cwt.	1,366	19.50	26,637
1987	98.0	97.0	12.0	Cwt.	1,164	9.20	10,709

Field Crop Acreage, Production, Price, and Value (continued)

Crop and Year	Acreage		Yield Per Acre	Unit	Production	Average Price Per Unit	Value of Production
	Planted	Harvested					
	1,000 Acres				1,000 Units	Dollars	1,000 Dollars
Potatoes							
1983	104	104	520	Cwt.	54,080	4.25	229,840
1984	116	115	495	Cwt.	56,925	5.15	293,164
1985	127	126	505	Cwt.	63,630	3.45	219,524
1986	119	118	525	Cwt.	61,950	4.30	266,385
1987	124	124	540	Cwt.	66,960	3.65	244,404
Hops							
1983	-	26.5	1,930	Lbs.	51,145	1.80	92,061
1984	-	22.7	1,920	Lbs.	43,584	1.99	86,732
1985	-	19.5	1,870	Lbs.	36,465	1.80	65,637
1986	-	17.4	2,040	Lbs.	35,496	1.59	56,439
1987	-	20.1	1,860	Lbs.	37,398	1.32	49,365
Alfalfa Hay							
1983	-	440	4.0	Tons	1,760	-	-
1984	-	475	4.3	Tons	2,043	-	-
1985	-	450	3.9	Tons	1,755	-	-
1986	-	470	4.2	Tons	1,974	-	-
1987	-	460	4.3	Tons	1,978	-	-
Other Hay							
1983	-	350	2.5	Tons	875	-	-
1984	-	325	2.7	Tons	878	-	-
1985	-	350	2.4	Tons	840	-	-
1986	-	360	2.5	Tons	900	-	-
1987	-	300	2.4	Tons	720	-	-
All Hay							
1983	-	790	3.34	Tons	2,635	78.50	206,848
1984	-	800	3.65	Tons	2,921	80.50	235,141
1985	-	800	3.24	Tons	2,595	84.50	219,278
1986	-	830	3.46	Tons	2,874	60.00	172,440
1987	-	760	3.55	Tons	2,698	54.50	147,041
Peppermint							
1983	-	9.5	80	Lbs.	760	9.40	7,144
1984	-	12.4	84	Lbs.	1,042	10.10	10,524
1985	-	13.2	87	Lbs.	1,148	8.30	9,528
1986	-	10.9	89	Lbs.	970	8.35	8,100
1987	-	11.5	87	Lbs.	1,001	10.80	10,811
Spearmint							
1983	-	9.4	97	Lbs.	912	11.70	10,670
1984	-	11.3	111	Lbs.	1,254	11.70	14,672
1985	-	14.0	115	Lbs.	1,605	10.80	17,334
1986	-	13.0	143	Lbs.	1,859	10.70	19,891
1987	-	10.2	138	Lbs.	1,408	11.30	15,910
Rapeseed							
1986	15	14	1,700	Lbs.	23,800	.075	1,785
1987	15	13	1,385	Lbs.	18,000	.075	1,350
Other Crops							
1983	-	115	-	-	-	-	29,700
1984	-	111	-	-	-	-	31,900
1985	-	108	-	-	-	-	19,300
1986	-	130	-	-	-	-	38,400
1987	-	161	-	-	-	-	38,980
State Total 4/							
1983	5,431.4	4,999.4	-	-	-	-	1,484,640
1984	5,381.4	5,104.4	-	-	-	-	1,508,748
1985	5,594.7	5,375.7	-	-	-	-	1,229,633
1986	5,120.3	4,898.3	-	-	-	-	1,052,796
1987	4,282.8	4,139.8	-	-	-	-	971,956

1/ Corn planted acres is "Planted for Grain and Silage".

2/ Excludes Wrinkled Seed Peas and Austrian Winter Peas.

3/ Data provided by the American Dry Pea and Lentil Association.

4/ Planted acres for State total includes harvested acreage for hops, hay, mint, dry edible peas, lentils, and other crops.

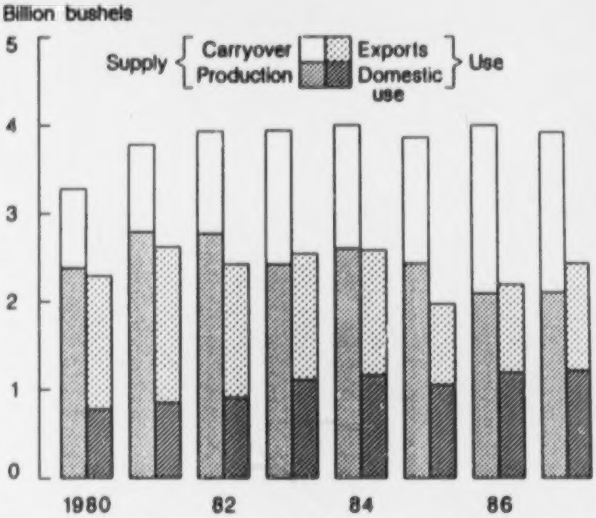
ALL WHEAT

Washington's all wheat production in 1987 decreased for the fourth consecutive year despite an increase in yield per acre. Washington's wheat growers harvested 114 million bushels on 2.0 million acres in 1987. Acres planted to wheat in 1987 declined for the third consecutive year to 2.1 million acres, one-third less than the 1976 record of 3.2 million acres. The average price per bushel increased slightly from $2.51 in 1986 to $2.70 in 1987. As a result, the value of production for wheat increased to $308.6 million in 1987.

Acreage, Production, and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Bushels	1,000 Bushels	$/Bu.
1978	2,910	44.0	128,160	3.45
1979	2,980	39.6	118,000	3.90
1980	3,160	50.7	160,220	3.98
1981	3,050	55.2	168,350	3.92
1982	2,840	48.9	138,880	4.04
1983	2,690	64.2	172,570	3.69
1984	2,610	61.4	160,350	3.45
1985	2,690	47.7	128,250	3.41
1986	2,410	48.5	116,850	2.51
1987	2,015	56.7	114,285	2.70

U.S. Wheat Supply and Use



1986 preliminary. 1987 projected. Supply includes imports. Year beginning June 1

All Wheat Stocks

Crop Year	October			January *			April *			June *		
	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total
	1,000 Bushels											
1978	39,730	93,019	132,749	23,069	70,072	93,141	12,816	47,507	60,323	6,408	39,472	45,880
1979	31,860	99,881	131,741	23,600	82,914	106,514	12,980	54,760	67,740	8,260	35,873	44,133
1980	49,668	134,651	184,319	32,044	98,753	130,797	16,022	61,936	77,958	6,409	40,102	46,511
1981	42,088	124,768	166,856	30,303	94,107	124,410	21,886	67,505	89,391	16,835	47,425	64,260
1982	44,442	124,614	169,056	31,942	102,873	134,815	26,387	77,856	104,243	20,832	64,282	85,114
1983	58,674	154,214	212,888	50,045	113,621	163,666	32,877	90,253	123,130	22,434	76,454	98,888
1984	52,916	147,996	200,912	40,088	116,865	156,953	28,863	93,006	121,869	22,449	85,775	108,224
1985	43,605	158,583	202,188	38,475	132,436	170,911	29,498	111,776	141,274	25,650	102,031	127,681
1986 1/	65,089	155,588	220,677	41,000	135,518	176,518	28,000	113,021	141,021	19,000	97,511	116,511
1987 1/	45,000	167,699	212,699	35,000	136,895	171,895	30,000	106,830	136,830	17,000	75,339	92,339

1/ Survey dates changed to September 1, December 1, March 1, and June 1 beginning with the 1986 crop.

* Following year.

All Wheat by County

County and District	1986				1987			
	Acreage		Yield Per Acre	Production	Acreage		Yield Per Acre	Production
	Planted	Harvested			Planted	Harvested		
	Acres		Bushels	Bushels	Acres		Bushels	Bushels
West								
Clark	600	500	66.0	33,000	500	400	65.0	26,000
Island	400	400	82.5	33,000	400	400	80.0	32,000
Lewis	700	700	91.4	64,000	600	500	78.0	39,000
Skagit	5,400	4,900	76.5	375,000	4,000	3,900	81.3	317,000
Snohomish	900	900	81.1	73,000	500	500	60.0	30,000
Whatcom	3,200	500	68.0	34,000	1,900	200	65.0	13,000
Other Co.	800	600	63.3	38,000	600	600	63.3	38,000
Total	12,000	8,500	76.5	650,000	8,500	6,500	76.2	495,000
Central								
Benton	158,800	154,000	29.5	4,537,000	97,500	96,000	38.9	3,730,000
Chelan	4,400	3,900	27.9	109,000	1,900	1,800	38.9	70,000
Kittitas	9,600	9,100	56.4	513,000	4,500	3,900	68.5	267,000
Klickitat	53,900	51,300	30.5	1,563,000	38,500	37,400	43.8	1,637,000
Okanogan	11,500	10,700	23.8	255,000	8,400	8,200	35.6	292,000
Yakima	61,300	59,000	51.0	3,010,000	35,200	32,700	52.1	1,704,000
Total	299,500	288,000	34.7	9,987,000	186,000	180,000	42.8	7,700,000
Northeast								
Ferry	2,000	1,800	35.0	63,000	700	600	36.7	22,000
Pend Oreille	300	300	33.3	10,000	200	200	40.0	8,000
Spokane	113,000	108,300	53.4	5,781,000	98,200	97,500	67.2	6,553,000
Stevens	12,200	11,600	46.0	534,000	8,900	8,700	49.2	428,000
Total	127,500	122,000	52.4	6,388,000	108,000	107,000	65.5	7,011,000
East Central								
Adams	462,100	434,000	37.0	16,076,000	331,000	309,000	40.0	12,375,000
Douglas	218,500	200,000	32.8	6,551,000	174,000	164,000	45.2	7,405,000
Franklin	140,700	128,000	53.2	6,804,000	97,000	94,500	55.6	5,250,000
Grant	264,900	245,000	61.3	15,017,000	172,000	159,000	67.4	10,720,000
Lincoln	290,800	259,500	46.6	12,081,000	305,000	300,500	51.6	15,506,000
Total	1,377,000	1,266,500	44.6	56,529,000	1,079,000	1,027,000	49.9	51,256,000
Southeast								
Asotin	30,600	28,000	43.1	1,206,000	26,100	25,900	50.2	1,300,000
Columbia	85,500	79,500	56.1	4,463,000	75,000	74,400	67.2	4,999,000
Garfield	65,800	63,700	45.4	2,892,000	66,700	65,900	59.0	3,890,000
Walla Walla	224,000	215,800	59.0	12,726,000	190,700	182,800	71.8	13,134,000
Whitman	348,100	338,000	65.1	22,009,000	360,000	345,500	70.9	24,500,000
Total	754,000	725,000	59.7	43,296,000	718,500	694,500	68.9	47,823,000
State Total	2,570,000	2,410,000	48.5	116,850,000	2,100,000	2,015,000	56.7	114,285,000

WINTER WHEAT

Washington farmers seeded 1.9 million acres to winter wheat for harvest in 1987. This level was 16 percent lower than the previous year and the lowest acreage seeded since 1962. Unseasonably warm temperatures, and some scattered rain showers in January and February melted the winter wheat snow cover causing concern among wheat growers. Mild temperatures with occasional precipitation continuedinto the spring. By May 31, the winter wheat crop was 65 percent headed, 30 percentage points ahead of the average. Cooler temperatures in June slowed winter wheat progress, somewhat. Hot and dry temperatures in July and August, however, allowed grain harvest to progress ahead of normal. By August 9th, harvest was running 17 percentage points ahead of average, and most areas had finished by the end of the month.

There were 1.825 million acres of winter wheat harvested from 1.9 million planted acres in Washington. The average yield was up 16 percent from 49 bushels per acre in 1986 to 57 bushels per acre in 1987.

Acreage, Yield, and Production,

Year	Acres Harvested	Yield Per Acre	Production
	1,000	Bushels	1,000 Bushels
1978	2,600	45	117,000
1979	2,200	43	94,600
1980	2,750	52	143,000
1981	2,830	57	161,310
1982	2,560	49	125,440
1983	2,500	65	162,500
1984	2,400	62	148,800
1985	2,400	48	115,200
1986	2,100	49	102,900
1987	1,825	57	104,025

SPRING WHEAT

Mild March temperatures allowed for early preparation of fields for spring wheat seeding. By April 19th, 90 percent of the state's 200,000 spring wheat acreage had been planted, and 55 percent had already emerged. Scattered rain showers provided favorable moisture conditions throughout the spring except for southeast Washington where precipitation was below normal. Nevertheless, spring wheat progressed slightly ahead of normal. July brought relief to southeast Washington in the form of rain. By the end of August, harvest of spring wheat was 94 percent complete.

Washington farmers harvested 190,000 of the 200,000 acres planted. Average yield increased from 45 bushels per acre in 1986 to 54 bushels in 1987.

Acreage, Yield, and Production

Year	Acres Harvested	Yield Per Acre	Production
	1,000	Bushels	1,000 Bushels
1978	310	36	11,160
1979	780	30	23,400
1980	410	42	17,220
1981	220	32	7,040
1982	280	48	13,440
1983	190	53	10,070
1984	210	55	11,550
1985	290	45	13,050
1986	310	45	13,950
1987	190	54	10,260

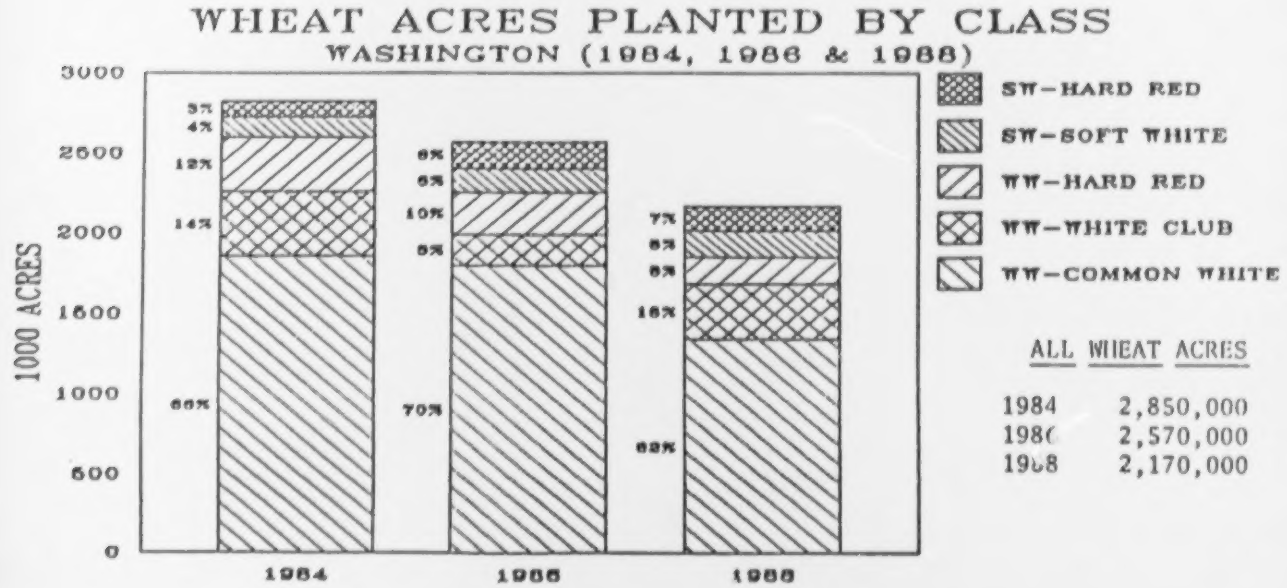
WHEAT VARIETY SURVEY

Funding for the 1988 Wheat Variety Survey was provided by the Washington Wheat Commission. The last wheat variety survey was conducted in 1986 and data are shown from that survey as a reference to evaluate the 1988 levels.

Wheat acreage seeded in Washington for the 1988 crop is estimated at 2.17 million acres, up 3 percent from the 1987 crop. Spring wheat accounted for 320,000 acres, up 60 percent from 1987. Winter wheat acreage declined for the sixth consecutive year, and is down 3 percent from 1987.

Common white continues to be the dominant class of winter wheat planted in Washington. It accounts for 72 percent of total winter wheat, compared with 80 percent in 1986. Stephens, with 23.5 percent of winter wheat, remains the leading variety in this class. Hill 81 and Lewjain followed with 15.2 and 12.2 percent of winter wheat, respectively. White club varieties gained in popularity in 1988, accounting for 18.5 percent of the total winter wheat planted, compared with 8.6 percent in 1986. Tres, a 1984 release from Washington State University, led this class with 220,300 acres. Acres planted to hard red winter wheat is estimated at 9 percent of the total winter wheat, down from 11.5 percent in 1986.

Spring wheat acreage in 1988 shows a shift in planted acreage from hard red to soft white. Soft white spring wheat accounted for 51.3 percent of the total spring wheat planted in 1988, and 48.1 percent in 1986. Edwall remains the variety clearly favored by Washington spring wheat growers. Edwall accounted for 32.7 percent, or 105,400 acres, of spring wheat. Hard red spring wheat accounted for 155,800 acres, down 6.1 percent from the 1986 planting of 166,000 acres. Wampum and Western Plant Breeder's 906 R led this class with 13.3 and 13.0 percent, respectively.



Wheat Acreage Planted by Variety, by Agricultural Statistics Districts, Washington

Class/Variety	West	Central	Northeast	E. Central	Southeast	1988 State	1986 State
Winter Wheat							
Common White							
Stephens	5,700	31,200	6,400	83,100	306,100	432,500	547,000
Hill 81	900	4,700	35,400	38,500	202,200	281,700	463,300
Lewjain	1,800	1,200	8,600	201,400	12,900	225,900	254,200
Daws	100	400	18,100	50,500	57,600	126,700	272,300
Sprague	NA	7,200	NA	91,900	2,200	101,300	174,000
Cashup	NA	900	2,000	19,300	38,500	60,700	28,000
Common White Mix	NA	400	2,400	8,300	43,200	54,300	NA
Dusty	NA	NA	2,800	13,100	10,000	25,900	2,300
Gaines and Nugaines	NA	900	1,100	4,900	5,600	12,500	24,900
Other Common 1/	500	100	NA	14,800	2,100	17,500	29,500
Total	9,000	47,000	76,800	525,800	680,400	1,339,000	1,795,500
White Club							
Tres	NA	2,900	2,200	197,600	17,600	220,300	36,000
Moro	NA	3,100	NA	69,300	4,200	76,600	60,800
Crew	NA	200	300	20,100	3,200	23,800	31,500
Tyee	NA	3,800	600	13,300	NA	17,700	56,300
Other Club 2/	NA	500	100	2,300	1,600	4,500	9,100
Total	NA	10,500	3,200	302,600	26,600	342,900	193,700
Hard Red							
Hatton	NA	7,100	NA	73,300	1,200	81,600	95,100
Weston	NA	36,100	NA	33,000	NA	69,100	106,600
Batum	NA	5,900	NA	2,800	NA	8,700	NA
Wanser	NA	7,200	NA	NA	NA	7,200	47,800
Other Hard Red 3/	NA	200	NA	500	800	1,500	11,300
Total	NA	56,500	NA	109,600	2,000	168,100	260,800
Total Winter	9,000	114,000	80,000	938,000	709,000	1,850,000	2,250,000
Spring Wheat							
Soft White							
Edwall	400	3,700	8,400	79,300	13,600	105,400	39,500
Waverly	NA	4,900	700	3,700	1,900	11,200	34,800
Dirkwin	700	800	NA	2,500	5,900	9,900	26,900
Urquie	NA	600	NA	7,100	NA	7,700	15,700
Fieldwin	NA	6,700	NA	NA	200	6,900	NA
Penawawa	NA	400	200	4,200	1,700	6,500	NA
WS-1	NA	NA	NA	4,000	1,300	5,300	4,000
Fielder	NA	500	400	2,900	300	4,100	6,100
Owens	100	NA	200	NA	1,600	1,900	6,100
Twin	NA	200	NA	1,000	600	1,800	11,200
Landmark	1,000	NA	NA	400	100	1,500	1,800
Marfed	NA	300	NA	1,200	NA	1,500	6,900
Other Soft 4/	NA	NA	NA	500	NA	500	1,000
Total	2,200	18,100	9,900	106,800	27,200	164,200	154,000
Hard Red							
Wampum	NA	37,200	NA	5,000	300	42,500	54,800
Westbred 906R	100	3,200	2,000	21,200	15,500	42,000	41,800
Yecora Rojo	600	5,200	NA	18,100	N	23,900	43,200
McKay	NA	500	NA	12,600	N	13,100	4,500
Newana	NA	NA	NA	10,800	N	10,800	7,700
Tammy	NA	100	NA	4,300	300	4,700	NA
Bronze Chief	NA	NA	NA	2,500	1,500	4,000	NA
Pondera	NA	NA	NA	3,000	400	3,400	NA
Westbred 926	100	300	100	2,400	400	3,300	NA
Other Hard Red 5/	NA	400	NA	7,300	400	8,100	14,000
Total	800	46,900	2,100	87,200	18,800	155,800	166,000
Total Spring	3,000	65,000	12,000	194,000	46,000	320,000	320,000
Total Spring	12,000	179,000	92,000	1,132,000	755,000	2,170,000	2,570,000

1/ Includes Basin, John, Luke, Malcolm, McDermid, and Yamhill. 2/ Includes Barbee, Faro, Jacmar, and Paha. 3/ Includes Andres and McCall. 4/ Includes Bliss and Treasure. 5/ Includes Ceres, Fortuna, Kidiak, NK 75 and Wared. "NA" Insufficient acreage planted to report.

Percent of Wheat Acreage Planted by Variety, by Agricultural Statistics Districts, Washington

Class/Variety	West	Central	Northeast	E. Central	Southeast	1988 State	1986 State
Winter Wheat							
Common White							
Stephens	63.3	27.4	8.0	8.8	43.2	23.5	24.4
Hill 81	10.0	4.1	44.1	4.1	28.5	15.2	20.7
Lewjain	20.0	1.1	10.8	21.5	1.8	12.2	11.3
Daws	1.1	.4	22.6	5.4	8.1	6.8	12.1
Sprague	0	6.3	0	9.8	.3	5.5	7.7
Cashup	0	.8	2.5	2.1	5.4	3.3	1.2
Common White Mix	0	.4	3.0	.9	6.1	2.9	NA
Dusty	0	0	3.5	1.4	1.4	1.4	.1
Gaines and Nugaines	0	.8	1.4	.5	.8	.7	1.1
Other Common 1/	5.6	.1	0	1.6	.3	.9	1.3
Total	100.0	41.4	95.9	56.1	95.9	72.4	79.9
White Club							
Tres	0	2.5	2.8	21.1	2.5	11.9	1.6
Moro	0	2.7	0	7.4	.6	4.1	2.7
Crew	0	.2	.4	2.1	.5	1.3	1.4
Tyee	0	3.3	.8	1.4	0	1.0	2.5
Other Club 2/	0	.4	.1	.2	.2	.2	.4
Total	0	9.1	4.1	32.2	3.8	18.5	8.6
Hard Red							
Hatton	0	6.2	0	7.8	.2	4.4	4.2
Weston	0	31.6	0	3.5	0	3.7	4.7
Batum	0	5.2	0	.3	0	.5	NA
Wanser	0	6.3	0	0	0	.4	2.1
Other Hard Red 3/	0	.2	0	.1	.1	.1	.5
Total	0	49.5	0	11.7	.3	9.1	11.5
Total Winter	100	100	100	100	100	100	100
Spring Wheat							
Soft White							
Edwall	13.3	5.7	70.0	40.8	29.5	32.7	12.3
Waverly	0	7.5	5.8	1.9	4.1	3.5	10.9
Dirkwin	23.3	1.2	0	1.3	12.8	3.1	8.4
Urquie	0	.9	0	3.7	0	2.4	4.9
Fieldwin	0	10.3	0	0	.4	2.2	NA
Penawawa	0	.6	1.7	2.2	3.7	2.0	NA
Ws-1	0	0	0	2.1	2.8	1.7	1.3
Fielder	0	.8	3.3	1.5	.7	1.3	1.9
Owens	3.3	0	1.7	0	3.5	.6	1.9
Twin	0	.3	0	.5	1.3	.6	3.5
Landmark	33.4	0	0	.2	.2	.5	.6
Marfed	0	.5	0	.6	0	.5	2.2
Other Soft 4/	0	0	0	.3	0	.2	.3
Total	73.3	27.8	82.5	55.1	59.0	51.3	48.2
Hard Red							
Wampum	0	57.2	0	2.6	.7	13.3	17
Westbred 906R	3.3	4.9	16.7	10.9	33.6	13.0	13.1
Yecora Rojo	20.1	8.0	0	9.3	0	7.5	13.5
McKay	0	.8	0	6.5	0	4.1	1.4
Newana	0	0	0	5.6	0	3.4	2.4
Tammy	0	.2	0	2.2	.7	1.5	NA
Bronze Chief	0	0	0	1.3	3.3	1.3	NA
Pondera	0	0	0	1.5	.9	1.1	NA
Westbred 926	3.3	.5	.8	1.2	.9	1.0	NA
Other Hard Red 5/	0	.6	0	3.8	.9	2.5	4.4
Total	26.7	72.2	17.5	44.9	41.0	48.7	51.8
Total Spring	100	100	100	100	100	100	100

1/ Includes Basin, John, Luke, Malcolm, McDermid, and Yamhill. 4/ Includes Bliss and Treasure.
2/ Includes Barbee, Faro, Jacmar, and Paha. 5/ Includes Ceres, Fortuna, Kodiak, NK 751, and Wared. 3/ Includes Andrews and McCall. "NA" Insufficient acreage planted to report in 1986.

Winter Wheat by County, 1986

County And District	All				Irrigated			Dryland		
	Acreage									
	Planted	Harvested	Yld	Production	Acreage Harvested	Yld	Production	Acreage Harvested	Yld	Production
	Acres		Bushels		Acres	Bushels		Acres	Bushels	
West										
Clark	600	500	66.0	33,000	-	-	-	500	66.0	33,000
Island	400	400	82.5	33,000	-	-	-	400	82.5	33,000
Lewis	700	700	91.4	64,000	-	-	-	700	91.4	64,000
Skagit	3,500	3,300	80.6	266,000	-	-	-	3,300	80.6	266,000
Snohomish	700	700	80.0	56,000	-	-	-	700	80.0	56,000
Whatcom	2,400	200	70.0	14,000	-	-	-	200	70.0	14,000
Other Co.	200	200	70.0	14,000	-	-	-	200	70.0	14,000
Total	8,500	6,000	80.0	480,000	-	-	-	6,000	80.0	480,000
Central										
Benton	94,000	90,000	27.2	2,448,000	3,500	112.0	392,000	86,500	23.8	2,056,000
Chelan	2,000	1,500	39.3	59,000	-	-	-	1,500	39.3	59,000
Kittitas	6,600	6,100	48.9	298,000	1,500	102.0	153,000	4,600	31.5	145,000
Klickitat	46,600	44,000	29.5	1,298,000	900	77.8	70,000	43,100	28.5	1,228,000
Okanogan	8,100	7,400	23.8	176,000	100	40.0	4,000	7,300	23.6	172,000
Yakima	33,200	31,000	37.0	1,147,000	5,000	99.4	497,000	26,000	25.0	650,000
Total	190,500	180,000	30.1	5,426,000	11,000	101.5	1,116,000	169,000	25.5	4,310,000
Northeast										
Ferry	800	600	36.7	22,000	-	-	-	600	36.7	22,000
Pend Oreille	100	100	30.0	3,000	-	-	-	100	30.0	3,000
Spokane	103,600	99,300	55.2	5,477,000	1,000	80.0	80,000	98,300	54.9	5,397,000
Stevens	8,500	8,000	51.8	414,000	500	62.0	31,000	7,500	51.1	383,000
Total	113,000	108,000	54.8	5,916,000	1,500	74.0	111,000	106,500	54.5	5,805,000
East Central										
Adams	415,000	390,000	36.1	14,091,000	60,500	75.0	4,536,000	329,500	29.0	9,555,000
Douglas	197,000	180,000	34.2	6,151,000	800	70.0	56,000	179,200	34.0	6,095,000
Franklin	126,500	114,000	51.0	5,819,000	33,000	110.0	3,629,000	81,000	27.0	2,190,000
Grant	220,000	202,000	61.0	12,315,000	82,200	99.5	8,180,000	119,800	34.5	4,135,000
Lincoln	271,000	240,000	46.8	11,229,000	28,000	75.5	2,114,000	212,000	43.0	9,115,000
Total	1,229,500	1,126,000	44.1	49,605,000	204,500	90.5	18,515,000	921,500	33.7	31,090,000
Southeast										
Asotin	26,500	24,000	44.6	1,070,000	-	-	-	24,000	44.6	1,070,000
Columbia	83,000	77,000	56.6	4,355,000	300	66.7	20,000	76,700	56.5	4,335,000
Garfield	61,000	59,000	46.6	2,747,000	500	54.0	27,000	58,500	46.5	2,720,000
Walla Walla	218,000	210,000	59.5	12,503,000	15,200	79.1	1,203,000	194,800	58.0	11,300,000
Whitman	320,000	310,000	67.1	20,798,000	2,000	74.0	148,000	308,000	67.0	20,650,000
Total	708,500	680,000	61.0	41,473,000	18,000	77.7	1,398,000	662,000	60.5	40,075,000
State Total	2,250,000	2,100,000	49.0	102,900,000	235,000	90.0	21,140,000	1,865,000	43.8	81,760,000

-Not Applicable

Winter Wheat by County 1987

County And District	All				Irrigated			Dryland		
	Acreage									
	Planted	Harvested	Yld	Production	Acreage Harvested	Yld	Production	Acreage Harvested	Yld	Production
	Acres		Bushels		Acres	Bushels		Acres	Bushels	
West										
Clark	500	400	65.0	26,000	-	-	-	400	65.0	26,000
Island	400	400	80.0	32,000	-	-	-	400	80.0	32,000
Lewis	600	500	78.0	39,000	-	-	-	500	78.0	39,000
Snohomish	2,900	2,800	85.0	238,000	-	-	-	2,800	85.0	238,000
Skagit	500	500	60.0	30,000	-	-	-	500	60.0	30,000
Whatcom	1,900	200	65.0	13,000	-	-	-	200	65.0	13,000
Other Co.	200	200	60.0	12,000	-	-	-	200	60.0	12,000
Total	7,000	5,000	78.0	390,000	-	-	-	5,000	78.0	390,000
Central										
Benton	76,500	76,000	38.0	2,890,000	1,000	114.0	114,000	75,000	37.0	2,776,000
Chelan	1,400	1,300	40.0	52,000	-	-	-	1,300	40.0	52,000
Kittitas	2,000	1,500	42.0	63,000	300	93.3	28,000	1,200	29.2	35,000
Klickitat	33,000	32,000	41.0	1,313,000	400	90.0	36,000	31,600	40.4	1,277,000
Okanogan	4,900	4,800	36.0	173,000	200	45.0	9,000	4,600	35.7	164,000
Yakima	28,700	26,400	45.0	1,189,000	5,600	113.9	638,000	20,800	26.5	551,000
Total	146,500	142,000	40.0	5,680,000	7,500	110.0	825,000	134,500	36.1	4,855,000
Northeast										
Ferry	400	300	30.0	9,000	-	-	-	300	30.0	9,000
Spokane	91,200	90,900	68.8	6,254,000	1,000	100.0	100,000	89,900	68.5	6,154,000
Stevens	5,400	5,300	56.0	297,000	500	80.0	40,000	4,800	53.5	257,000
Total	97,000	96,500	68.0	6,560,000	1,500	93.3	140,000	95,000	67.6	6,420,000
East Central										
Adams	300,000	280,000	39.0	10,925,000	39,000	85.0	3,315,000	241,000	31.6	7,610,000
Douglas	164,000	155,000	46.0	7,125,000	500	80.0	40,000	154,500	45.9	7,085,000
Franklin	89,000	87,000	54.0	4,700,000	17,500	113.7	1,989,000	69,500	39.0	2,711,000
Grant	132,000	121,000	65.0	7,870,000	43,500	106.5	4,631,000	77,500	41.8	3,239,000
Lincoln	293,000	290,000	52.0	15,070,000	29,000	85.0	2,465,000	261,000	48.3	12,605,000
Total	978,000	933,000	49.0	45,690,000	129,500	96.1	12,440,000	803,500	41.4	33,250,000
Southeast										
Asotin	23,600	23,500	51.0	1,199,000	-	-	-	23,500	51.0	1,199,000
Columbia	72,500	72,000	68.0	4,893,000	500	32.0	41,000	71,500	67.9	4,852,000
Garfield	61,700	61,000	61.0	3,718,000	300	80.0	24,000	60,700	60.9	3,694,000
Walla Walla	183,700	176,000	73.0	12,840,000	13,600	82.6	1,123,000	162,400	72.1	11,717,000
Whitman	330,000	316,000	73.0	23,055,000	2,100	62.9	132,000	313,900	73.0	22,923,000
Total	671,500	648,500	70.5	45,705,000	16,500	80.0	1,320,000	632,000	70.2	44,385,000
State Total	1,900,000	1,825,000	57.0	104,025,000	155,000	95.0	14,725,000	1,670,000	53.5	89,300,000

-Not Applicable.

Spring Wheat by County, 1986

County And District	All				Irrigated			Dryland		
	Acreage Planted	Acreage Harvested	Yld	Production	Acreage Harvested	Yld	Production	Acreage Harvested	Yld	Production
	Acres	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Acres	Bushels	Bushels
West										
Skagit	1,900	1,600	68.1	109,000	-	-	-	1,600	68.1	109,000
Snohomish	200	200	85.0	17,000	-	-	-	200	85.0	17,000
Whatcom	800	300	66.7	20,000	-	-	-	300	66.7	20,000
Other Co.	600	400	60.0	24,000	-	-	-	400	60.0	24,000
Total	3,500	2,500	68.0	170,000	-	-	-	2,500	68.0	170,000
Central										
Benton	64,800	64,000	32.6	2,089,000	10,000	88.5	885,000	54,000	22.3	1,204,000
Chelan	2,400	2,400	20.8	50,000	-	-	-	2,400	20.8	50,000
Kittitas	3,000	3,000	71.7	215,000	2,800	75.0	210,000	200	25.0	5,000
Klickitat	7,300	7,300	36.3	265,000	2,200	61.8	136,000	5,100	25.3	129,000
Okanogan	3,400	3,300	23.9	79,000	300	53.3	16,000	3,000	21.0	63,000
Yakima	28,100	28,000	55.5	1,863,000	21,700	82.4	1,787,000	6,300	12.1	76,000
Total	109,000	108,000	42.2	4,561,000	37,000	82.0	3,034,000	71,000	21.5	1,527,000
Northeast										
Ferry	1,200	1,200	34.2	41,000	-	-	-	1,200	34.2	41,000
Pend Oreille	200	200	35.0	7,000	100	40.0	4,000	100	30.0	3,000
Spokane	9,400	9,000	33.8	304,000	600	43.3	32,000	8,400	21.4	272,000
Stevens	3,700	3,600	33.3	120,000	300	46.7	14,000	3,300	32.1	106,000
Total	14,500	14,000	33.7	472,000	1,000	50.0	50,000	13,000	32.5	422,000
East Central										
Adams	47,100	44,000	45.1	1,985,000	20,000	70.5	1,410,000	24,000	24.0	575,000
Douglas	21,500	20,000	20.0	400,000	-	-	-	20,000	20.0	400,000
Franklin	14,200	14,000	70.4	985,000	10,000	59.0	890,000	4,000	23.8	95,000
Grant	44,900	43,000	62.8	2,702,000	26,000	86.5	2,250,000	17,000	26.6	452,000
Lincoln	19,800	19,500	43.7	852,000	4,000	60.0	240,000	15,500	39.5	612,000
Total	147,500	140,500	49.3	6,924,000	60,000	79.8	4,790,000	80,500	26.5	2,134,000
Southeast										
Asotin	4,100	4,000	34.0	136,000	-	-	-	4,000	34.0	136,000
Columbia	2,500	2,500	43.2	108,000	-	-	-	2,500	43.2	108,000
Garfield	4,800	4,700	30.9	145,000	-	-	-	4,700	30.9	145,000
Walla Walla	6,000	5,800	38.4	223,000	1,700	60.0	102,000	4,100	29.5	121,000
Whitman	28,100	28,000	43.3	1,211,000	300	80.0	24,000	27,700	42.9	1,187,000
Total	45,500	45,000	40.5	1,823,000	2,000	63.0	126,000	43,000	39.5	1,697,000
State Total	320,000	310,000	45.0	13,950,000	100,000	80.0	8,000,000	210,000	28.3	5,950,000

- Not Applicable.

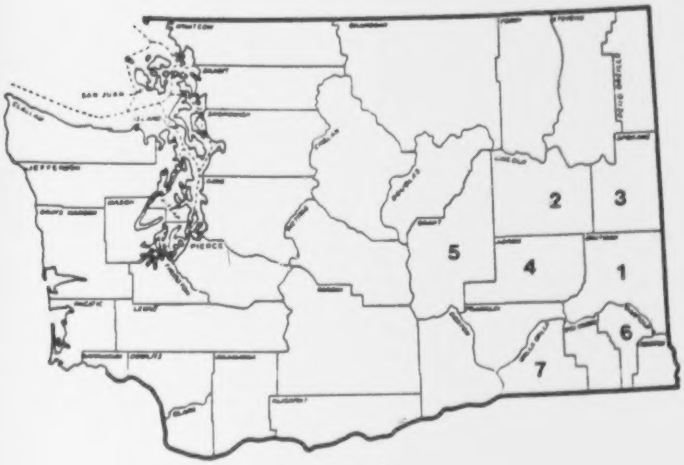
Spring Wheat by County, 1987

County And District	All				Irrigated			Dryland		
	Acreage									
	Planted	Harvested	Yld	Production	Acreage Harvested	Yld	Production	Acreage Harvested	Yld	Production
	Acres		Bushels		Acres	Bushels		Acres	Bushels	
West										
Skagit	1,100	1,100	71.8	79,000	-	-	-	1,100	71.8	79,000
Other Co.	400	400	65.0	26,000	-	-	-	400	65.0	26,000
Total	1,500	1,500	70.0	105,000	-	-	-	1,500	70.0	105,000
Central										
Benton	21,000	20,000	42.0	840,000	3,000	95.0	285,000	17,000	32.6	555,000
Chelan	500	500	36.0	18,000	-	-	-	500	36.0	18,000
Kittitas	2,500	2,400	85.0	204,000	2,200	90.0	198,000	200	30.0	6,000
Klickitat	5,500	5,400	60.0	324,000	2,800	82.1	230,000	2,600	36.2	94,000
Okanogan	3,500	3,400	35.0	119,000	-	-	-	3,400	35.0	119,000
Yakima	6,500	6,300	81.7	515,000	5,000	95.0	475,000	1,300	30.8	40,000
Total	39,500	38,000	53.2	2,020,000	13,000	91.4	1,188,000	25,000	33.3	832,000
Northeast										
Ferry	300	300	43.3	13,000	-	-	-	300	43.3	13,000
Pend Oreille	200	200	40.0	8,000	-	-	-	200	40.0	8,000
Spokane	7,000	6,600	45.3	299,000	400	90.0	36,000	6,200	42.4	263,000
Stevens	3,500	3,400	38.5	131,000	100	50.0	5,000	3,300	38.2	126,000
Total	11,000	10,500	43.0	451,000	500	82.0	41,000	10,000	41.0	410,000
East Central										
Adams	31,000	29,000	50.0	1,450,000	14,600	72.9	1,065,000	14,400	26.7	385,000
Douglas	10,000	9,000	31.1	280,000	500	60.0	30,000	8,500	29.4	250,000
Franklin	8,000	7,500	73.3	550,000	5,400	91.1	492,000	2,100	27.6	58,000
Grant	40,000	38,000	75.0	2,850,000	30,500	85.8	2,617,000	7,500	31.1	233,000
Lincoln	12,000	10,500	41.5	436,000	2,500	58.4	146,000	8,000	36.3	290,000
Total	101,000	94,000	59.2	5,566,000	53,500	81.3	4,350,000	40,500	30.0	1,216,000
Southeast										
Asotin	2,500	2,400	42.1	101,000	-	-	-	2,400	42.1	101,000
Columbia	2,500	2,400	44.2	106,000	-	-	-	2,400	44.2	106,000
Garfield	5,000	4,900	35.1	172,000	-	-	-	4,900	35.1	172,000
Walla Walla	7,000	6,800	43.2	294,000	1,000	62.0	62,000	5,800	40.0	232,000
Whitman	30,000	29,500	49.0	1,445,000	-	-	-	29,500	49.0	1,445,000
Total	47,000	46,000	46.0	2,118,000	1,000	62.0	62,000	45,000	45.7	2,056,000
State Total	200,000	190,000	54.0	10,260,000	68,000	83.0	5,641,000	122,000	37.9	4,619,000

- Not Applicable.

BARLEY

Warm, dry weather in March allowed the 1987 barley crop to get off to an early start. Growers were planting spring barley by mid-March. Acreage planted to barley in 1987 was down for the second year in a row at 660,000 acres, 240,000 acres less than 1986. Timely rain showers in May and June helped the barley crop develop well in most locations, but frost and hail damage reduced yield in some areas. Average yield was up 5 bushels from 1986, and with harvested acreage at 645,000 acres, production was 35,475 thousand bushels.



Acreage, Production, and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Bushels	1,000 Bushels	$/Bu.
1978	380	61	23,180	1.88
1979	315	54	17,010	2.54
1980	430	75	32,250	2.91
1981	760	58	44,080	2.50
1982	810	61	49,410	2.23
1983	850	64	54,400	2.58
1984	980	65	63,700	2.25
1985	1,180	48	56,640	1.95
1986	900	50	45,000	1.67
1987	645	55	35,475	1.85

Barley Stocks

Crop Year	October			January *			April *			June *		
	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total
	1,000 Bushels											
1978	6,954	14,839	21,793	4,172	11,076	15,248	2,782	8,238	11,020	1,159	6,330	7,489
1979	4,583	13,499	18,082	3,402	8,513	11,915	2,552	4,496	7,048	1,021	3,293	4,314
1980	6,773	19,696	26,469	4,193	14,253	18,446	2,258	5,231	7,489	968	2,376	3,344
1981	9,698	24,112	33,810	6,612	14,166	20,778	3,967	5,432	9,399	1,763	4,046	5,809
1982	9,882	29,036	38,918	6,423	23,419	29.842	3,459	14,607	18,066	2,223	12,146	14,369
1983	13,600	33,846	47,446	8,160	20,947	29,107	3,264	16,494	19,758	2,176	11,612	13,788
1984	14,651	35,772	50,423	9,555	22,928	32,483	5,733	17,387	23,120	3,822	14,519	18,341
1985	16,992	36,719	53,711	11,328	28,563	39,891	1/	1/	1/	5,664	20,791	26,455
1986 1/										3,000	21,485	24,485
1987 1/										2,700	8,859	11,559

1/ Estimates discontinued for all quarters except June.

* Following year.

BARLEY VARIETY SURVEY

Funds to conduct the 1988 Barley Variety Survey were provided jointly by the American Malting Barley Association, INC. and the Washington Barley Commission. Data are presented for 1986, 1987, and 1988 as a reference to evaluate the 1988 levels.

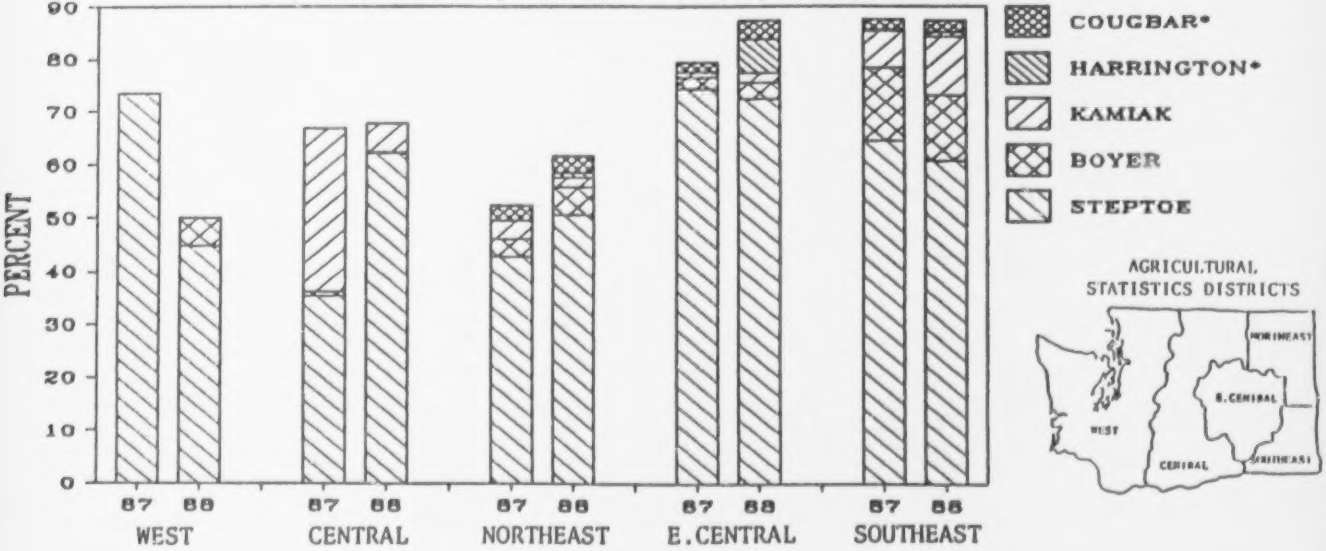
Barley acreage seeded in Washington for the 1988 crop is estimated at 580,000 acres, down 12 percent from 1987, and 48 percent less than the record planting of 1.2 million acres in 1985.

About 89 percent, or 515,900 acres of the State's barley acreage consisted of feed type barley varieties. Steptoe feed barley, with 64 percent of the total barley acreage, continued as the overall favorite of Washington barley growers. Other important feed barley varieties were Boyer at 43,300 acres, Kamiak at 35,800 acres, and Showin at 12,200 acres.

Only 11 percent, or 64,100 acres of total barley was seeded to malting type varieties. This percentage is comparable to last years' 10 percent. This year's malting variety acreage was led by Harrington, a 1981 release from the Crop Science Department of the University of Saskatchewan, Canada. Harrington accounted for 17,000 acres and was followed closely by Cougbar, which was seeded on 15,500 acres.

PERCENT OF BARLEY ACRES PLANTED

BY VARIETY, BY DISTRICT, 1987–1988



Barley: Acres Planted by Variety

Variety Year	West	Central	Northeast	E. Central	Southeast	State
	Acres					
Steptoe						
1986	6,000	34,000	45,000	308,000	280,000	673,000
1987	4,400	12,400	30,000	195,000	185,600	427,400
1988	2,700	18,000	29,400	163,800	158,700	372,600
Boyer						
1986	400	0	10,000	12,000	43,000	65,400
1987	0	300	2,400	5,400	38,900	47,000
1988	300	100	3,100	7,200	32,700	43,400
Kamiak						
1986	0	13,000	3,500	11,000	15,400	42,900
1987	0	10,700	2,300	2,800	20,000	35,800
1988	0	1,600	1,000	4,100	28,700	35,400
Harrington *						
86/87	NA	NA	NA	NA	NA	NA
1988	0	0	500	14,100	2,400	17,000
Cougbar *						
1986	NA	NA	NA	NA	NA	NA
1987	0	0	2,000	4,700	6,700	13,400
1988	0	0	1,800	8,100	5,600	15,500
Showin						
1986	NA	NA	NA	NA	NA	NA
1987	0	200	2,900	8,100	8,100	19,300
1988	0	200	2,600	2,600	6,800	12,200
Morex *						
1986	0	0	4,500	0	1,800	6,300
1987	0	0	10,300	1,700	1,900	13,900
1988	0	0	7,800	1,500	1,300	10,600
Klages *						
1986	0	0	0	3,400	0	3,400
1987	0	500	0	5,600	0	6,100
1988	0	0	0	9,700	0	9,700
Clark *						
1986	0	500	3,500	9,000	1,900	14,900
1987	0	0	8,000	10,900	500	19,400
1988	0	100	2,300	400	3,000	5,800
Advance*						
1986	0	2,000	3,600	3,500	15,600	24,700
1987	0	0	800	3,000	5,500	9,300
1988	0	0	600	400	4,500	5,500
Kombar						
1986	100	200	0	600	600	1,500
1987	700	1,400	1,000	4,500	1,400	9,000
1988	200	500	0	3,000	1,100	4,800
Westbred Gustoe						
1986	300	2,000	0	7,300	3,100	12,700
1987	100	1,000	100	1,000	800	3,000
1988	200	1,800	0	1,300	1,000	4,300
Spring Flyn						
1986	0	5,400	0	0	0	5,400
1987	NA	NA	NA	NA	NA	NA
1988	0	3,900	0	0	300	4,200
Menuet						
1986	0	400	700	2,600	0	3,700
1987	0	0	6,700	400	0	7,100
1988	1,600	200	1,300	900	0	4,000
Lewis						
86/87	NA	NA	NA	NA	NA	NA
1988	0	100	2,300	800	200	3,400
Piston						
1986	0	300	6,200	3,500	500	10,500
1987	0	0	1,800	5,200	1,600	8,600
1988	NA	NA	NA	NA	NA	NA
Andre *						
1986	0	0	500	0	9,000	9,500
1987	0	0	1,500	2,200	2,700	6,400
1988	NA	NA	NA	NA	NA	NA
Hesk						
1986	0	1,000	0	0	1,500	2,500
1987	0	100	0	1,200	3,600	4,900
1988	NA	NA	NA	NA	NA	NA
Columbia						
1986	100	800	2,500	3,000	2,500	8,900
1987	300	2,200	0	1,200	700	4,400
1988	NA	NA	NA	NA	NA	NA
Belford						
1986	500	800	1,200	2,300	1,700	6,500
1987	0	800	100	600	2,400	3,900
1988	NA	NA	NA	NA	NA	NA
Other						
1986	1,600	1,600	800	16,800	7,400	28,200
1987	500	5,400	100	8,500	6,600	21,100
1988	1,000	2,500	5,300	8,100	14,700	31,600
State Total						
1986	9,000	62,000	82,000	383,000	384,000	920,000
1987	6,000	35,000	70,000	262,000	287,000	660,000
1988	6,000	29,000	58,000	226,000	261,000	580,000

* Malting Varieties
NA Insufficient acreage planted to report.

Barley: Percent of Acreage Planted by Variety

Variety Year	West	Central	Northeast	E. Central	Southeast	State
			Percent			
Steptoe						
1986	66.7	54.8	54.9	80.4	72.9	73.2
1987	73.3	35.4	42.9	74.4	64.7	64.8
1988	45.0	62.1	50.7	72.5	60.8	64.2
Boyer						
1986	4.4	0	12.2	3.1	11.2	7.1
1987	0	.9	3.4	2.1	13.6	7.1
1988	5.0	.3	5.3	3.2	12.5	7.5
Kamiak						
1986	0	21.0	4.3	2.9	4.0	4.7
1987	0	30.6	3.3	1.1	7.0	5.4
1988	0	5.5	1.7	1.8	11.0	6.1
Harrington *						
86/87	NA	NA	NA	NA	NA	NA
1988	0	0	.9	6.2	.9	2.9
Cougbar *						
1986	NA	NA	NA	NA	NA	NA
1987	0	0	2.9	1.8	2.3	2.0
1988	0	0	3.1	3.6	2.1	2.7
Showin						
1986	NA	NA	NA	NA	NA	NA
1987	0	.6	4.1	3.1	2.8	2.9
1988	0	.7	4.5	1.2	2.6	2.1
Morex *						
1986	0	0	5.5	0	.5	.7
1987	0	0	14.7	.6	.7	2.1
1988	0	0	13.4	.7	.5	1.8
Klages *						
1986	0	0	0	.9	0	.4
1987	0	1.4	0	2.1	0	.9
1988	0	0	0	4.3	0	1.7
Clark *						
1986	0	.8	4.3	2.3	.5	1.6
1987	0	0	11.4	4.2	.2	2.9
1988	0	.3	4.0	.2	1.1	1.0
Advance *						
1986	0	3.2	4.4	.9	4.1	2.7
1987	0	0	1.1	1.1	1.9	1.4
1988	0	0	1.0	.2	1.7	.9
Kombar						
1986	1.1	.3	0	.2	.2	.2
1987	11.7	4.0	1.4	1.7	.5	1.4
1988	3.3	1.7	0	1.3	.4	.8
Westbred Gustoe						
1986	3.3	3.2	0	1.9	.8	1.4
1987	1.7	2.9	.1	.4	.3	.5
1988	3.3	6.2	0	.6	.4	.7
Spring Flyn						
1986	0	8.7	0	0	0	.6
1987	NA	NA	NA	NA	NA	NA
1988	0	13.4	0	0	.1	.7
Menuet						
1986	0	.6	.9	.7	0	.4
1987	0	0	9.6	.2	0	1.1
1988	26.7	.7	2.2	.4	0	.7
Lewis						
86/87	NA	NA	NA	NA	NA	NA
1988	0	.3	4.0	.4	.1	.6
Piston						
1986	0	.5	7.6	.9	.1	1.1
1987	0	0	2.6	2.0	.6	1.3
1988	NA	NA	NA	NA	NA	NA
Andre *						
1986	0	0	.6	0	2.3	1.0
1987	0	0	2.1	.8	.9	1.0
1988	NA	NA	NA	NA	NA	NA
Hesk						
1986	0	1.6	0	0	.4	.3
1987	0	.3	0	.5	1.3	.7
1988	NA	NA	NA	NA	NA	NA
Columbia						
1986	1.1	1.3	3.0	.8	.7	1.0
1987	5.0	6.3	0	.5	.2	.7
1988	NA	NA	NA	NA	NA	NA
Belford						
1986	5.6	1.3	1.5	.6	.4	.7
1987	0	2.3	.1	.2	.8	.6
1988	NA	NA	NA	NA	NA	NA
Other						
1986	17.8	2.6	1.0	4.4	1.9	3.1
1987	8.3	15.4	.1	3.2	2.3	3.2
1988	16.7	8.6	9.1	3.6	5.6	5.4
State Total						
1986	100	100	100	100	100	100
1987	100	100	100	100	100	100
1988	100	100	100	100	100	100

* Malting Varieties
NA Insufficient acreage planted to report.

Barley by County, 1986

County And District	All				Irrigated			Dryland		
	Acreage									
	Planted	Harvested	Yld	Production	Acreage Harvested	Yld	Production	Acreage Harvested	Yld	Production
	Acres		Bushels		Acres	Bushels		Acres	Bushels	
West										
Clallam	600	600	95.0	57,000	-	-	-	600	95.0	57,000
Clark	2,500	2,500	82.0	205,000	-	-	-	2,500	82.0	205,000
Island	400	400	72.5	29,000	-	-	-	400	72.5	29,000
Lewis	1,000	1,000	68.0	68,000	-	-	-	1,000	68.0	68,000
San Juan	300	300	56.7	17,000	-	-	-	300	56.7	17,000
Skagit	2,200	2,200	92.3	203,000	-	-	-	2,200	92.3	203,000
Snohomish	500	500	92.0	46,000	-	-	-	500	92.0	46,000
Whatcom	800	800	63.8	51,000	-	-	-	800	63.8	51,000
Other Co.	700	700	75.7	53,000	-	-	-	700	75.7	53,000
Total	9,000	9,000	81.0	729,000	-	-	-	9,000	81.0	729,000
Central										
Benton	22,300	22,000	35.7	785,000	1,700	130.0	221,000	20,300	27.8	564,000
Chelan	500	500	24.0	12,000	-	-	-	500	24.0	12,000
Kittitas	1,600	1,500	67.3	101,000	1,000	86.0	86,000	500	30.0	15,000
Klickitat	21,500	21,000	27.6	580,000	600	66.7	40,000	20,400	26.5	540,000
Okanogan	2,100	2,000	37.5	75,000	200	50.0	10,000	1,800	36.1	65,000
Yakima	14,000	13,000	54.4	707,000	5,000	91.8	459,000	8,000	31.0	248,000
Total	62,000	60,000	37.7	2,260,000	8,500	96.0	816,000	51,500	28.0	1,444,000
Northeast										
Ferry	700	600	41.7	25,000	100	70.0	7,000	500	36.0	18,000
Pend Oreille	500	500	50.0	25,000	200	75.0	15,000	300	33.3	10,000
Spokane	71,200	69,500	51.3	3,563,000	800	72.5	58,000	68,700	51.0	3,505,000
Stevens	9,600	9,400	44.4	417,000	900	57.8	52,000	8,500	42.9	365,000
Total	82,000	80,000	50.4	4,030,000	2,000	66.0	132,000	78,000	50.0	3,898,000
East Central										
Adams	106,000	104,500	38.5	4,027,000	17,700	77.8	1,377,000	86,800	30.5	2,650,000
Douglas	31,000	30,000	29.6	887,000	300	80.0	24,000	29,700	29.1	863,000
Franklin	27,000	25,000	43.2	1,081,000	4,000	97.0	388,000	21,000	33.0	693,000
Grant	42,000	35,500	50.7	1,801,000	10,000	101.0	1,010,000	25,500	31.0	791,000
Lincoln	177,000	175,000	49.1	8,584,000	11,000	79.0	869,000	164,000	47.0	7,715,000
Total	383,000	370,000	44.3	16,380,000	43,000	85.3	3,668,000	327,000	38.9	12,712,000
Southeast										
Asotin	20,000	19,500	48.1	938,000	200	60.0	12,000	19,300	48.0	926,000
Columbia	21,500	20,500	56.0	1,148,000	-	-	-	20,500	56.0	1,148,000
Garfield	41,500	41,500	44.1	1,831,000	400	57.5	23,000	41,100	44.0	1,808,000
Walla Walla	69,000	68,500	50.2	3,442,000	3,800	79.5	302,000	64,700	48.5	3,140,000
Whitman	232,000	231,000	61.7	14,242,000	1,100	56.4	62,000	229,900	61.7	14,180,000
Total	384,000	381,000	56.7	21,601,000	5,500	72.5	399,000	375,500	56.5	21,202,000
State Total	920,000	900,000	50.0	45,000,000	59,000	85.0	5,015,000	841,000	47.5	39,985,000

- Not applicable.

Barley by County, 1987

County And District	All				Irrigated			Dryland		
	Acreage									
	Planted	Harvested	Yld	Production	Acreage Harvested	Yld	Production	Acreage Harvested	Yld	Production
	Acres		Bushels		Acres	Bushels		Acres	Bushels	
West										
Clallam	300	300	73.3	22,000	-	-	-	300	73.3	22,000
Clark	2,200	2,200	84.1	185,000	-	-	-	2,200	84.1	185,000
Island	400	400	100.0	40,000	-	-	-	400	100.0	40,000
Lewis	300	300	66.7	20,000	-	-	-	300	66.7	20,000
Skagit	1,500	1,500	94.7	142,000	-	-	-	1,500	94.7	142,000
Snohomish	500	500	72.0	36,000	-	-	-	500	72.0	36,000
Whatcom	400	400	62.5	25,000	-	-	-	400	62.5	25,000
Other Co.	400	400	72.5	29,000	-	-	-	400	72.5	29,000
Total	6,000	6,000	83.2	499,000	-	-	-	6,000	83.2	499,000
Central										
Benton	9,300	8,600	44.0	378,000	1,300	120.0	156,000	7,300	30.4	222,000
Chelan	300	200	30.0	6,000	-	-	-	200	30.0	6,000
Kittitas	1,200	1,100	90.0	99,000	1,100	90.0	99,000	-	-	-
Klickitat	10,800	10,200	41.0	418,000	400	67.5	27,000	9,800	39.9	391,000
Okanogan	800	700	34.3	24,000	100	40.0	4,000	600	33.3	20,000
Yakima	12,600	12,200	68.0	829,000	7,600	90.0	684,000	4,600	31.5	145,000
Total	35,000	33,000	53.2	1,754,000	10,500	92.4	970,000	22,500	34.8	784,000
Northeast										
Ferry	400	300	43.3	13,000	-	-	-	300	43.3	13,000
Pend Oreille	800	800	81.3	65,000	200	110.0	22,000	600	71.7	43,000
Spokane	61,500	60,700	59.0	3,581,000	500	110.0	55,000	60,200	58.6	3,526,000
Stevens	7,300	7,200	50.0	360,000	800	60.0	48,000	6,400	48.8	312,000
Total	70,000	69,000	58.2	4,019,000	1,500	83.3	125,000	67,500	57.7	3,894,000
East Central										
Adams	62,400	61,000	41.0	2,502,000	11,300	80.0	904,000	49,700	32.2	1,598,000
Douglas	12,100	11,800	49.0	578,000	200	80.0	16,000	11,600	48.4	562,000
Franklin	22,600	21,800	45.0	981,000	4,000	90.0	360,000	17,800	34.9	621,000
Grant	26,400	25,900	80.0	2,072,000	11,300	125.0	1,413,000	14,600	45.1	659,000
Lincoln	138,500	136,500	49.0	6,689,000	11,200	80.0	896,000	125,300	46.2	5,793,000
Total	262,000	257,000	49.9	12,822,000	38,000	94.4	3,589,000	219,000	42.2	9,233,000
Southeast										
Asotin	12,000	10,200	52.0	530,000	100	90.0	9,000	10,100	51.6	521,000
Columbia	16,400	16,000	64.0	1,024,000	-	-	-	16,000	64.0	1,024,000
Garfield	37,600	36,800	55.0	2,024,000	300	76.7	23,000	36,500	54.8	2,001,000
Walla Walla	32,000	31,300	59.0	1,846,000	2,200	80.0	176,000	29,100	57.4	1,670,000
Whitman	189,000	185,700	59.0	10,957,000	400	60.0	24,000	185,300	59.0	10,933,000
Total	287,000	280,000	58.5	16,381,000	3,000	77.3	232,000	277,000	58.3	16,149,000
State Total	660,000	645,000	55.0	35,475,000	53,000	92.8	4,916,000	592,000	51.6	30,559,000

- Not Applicable.

OATS

Acres planted in 1987 to oats increased by 5,000 acres, and acres harvested for grain increased by 2,000 acres to produce the largest oat crop in Washington since 1973. Oat growers harvested 2,310,000 bushels in 1987, up 8 percent from the previous year. The yield reached 66 bushels per acre, just 2 bushels short of the record set in 1984.

Acreage, Production and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Bushels	1,000 Bushels	$/Bu.
1978	30	58	1,740	1.62
1979	33	53	1,749	1.70
1980	30	62	1,860	2.10
1981	32	50	1,600	2.19
1982	30	62	1,860	1.87
1983	33	63	2,079	1.61
1984	30	68	2,040	1.80
1985	33	65	2,145	1.50
1986	33	65	2,145	1.10
1987	35	66	2,310	1.35

Oat Stocks

Crop Year	October			January *			April *			June *		
	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total
	1,000 Bushels											
1978	1,218	569	1,787	940	499	1,439	592	248	840	331	195	526
1979	1,049	697	1,746	717	498	1,215	507	311	818	262	213	475
1980	930	407	1,337	744	358	1,102	521	188	709	260	115	375
1981	1,040	272	1,312	800	213	1,013	560	175	735	256	131	387
1982	1,283	616	1,899	986	602	1,588	707	399	1,106	335	356	691
1983	1,663	615	2,278	1,040	526	1,566	707	314	1,021	312	180	492
1984	1,530	344	1,874	1,020	313	1,333	551	163	714	326	137	463
1985	1,823	270	2,093	1,158	241	1,399	1/	1/	1/	2/	174	2/
1986 1/										2/	133	2/
1987 1/										2/	180	2/

1/ Estimates discontinued for all quarters except June. 2/ Not published to avoid disclosure of individual reports. * Following year.

Oats By County

County and District	1986				1987			
	Acreage		Yield Per Acre	Production	Acreage		Yield Per Acre	Production
	Planted	Harvested			Planted	Harvested		
	Acres		Bushels		Acres		Bushels	
West								
Clark	15,000	3,700	85.1	315,000	18,500	4,500	88.0	396,000
Lewis	2,000	1,000	70.0	70,000	3,000	1,000	63.0	63,000
Skagit	1,500	200	95.0	19,000	2,000	300	70.0	21,000
Snohomish	500	100	90.0	9,000	600	300	70.0	21,000
Whatcom	1,900	100	80.0	8,000	1,600	100	80.0	8,000
Other Co.	2,100	400	75.0	30,000	2,300	300	80.0	24,000
Total	23,000	5,500	82.0	451,000	28,000	6,500	82.0	533,000
Central								
Benton	300	-	-	-	300	100	50.0	5,000
Chelan	-	-	-	-	300	200	50.0	10,000
Kittitas	2,600	1,500	106.0	159,000	2,400	1,200	90.0	108,000
Klickitat	1,000	300	70.0	21,000	900	200	70.0	14,000
Okanogan	1,200	800	60.0	48,000	1,300	1,000	55.0	55,000
Yakima	1,400	400	90.0	36,000	1,300	300	90.0	27,000
Total	6,500	3,000	88.0	264,000	6,500	3,000	73.0	219,000
Northeast								
Ferry	1,000	600	55.0	33,000	800	400	50.0	20,000
Pend Oreille	2,000	1,200	50.0	60,000	2,700	2,000	55.0	110,000
Spokane	16,000	8,500	60.0	510,000	15,000	8,000	66.0	528,000
Stevens	9,500	6,200	57.1	354,000	8,500	5,600	59.6	334,000
Total	28,500	16,500	58.0	957,000	27,000	16,000	62.0	992,000
East Central								
Adams	400	200	65.0	13,000	500	300	50.0	15,000
Douglas	2,500	2,000	40.0	80,000	3,000	2,500	46.0	115,000
Franklin	600	200	70.0	14,000	600	200	65.0	13,000
Grant	3,500	1,800	65.6	118,000	3,500	1,900	66.3	126,000
Lincoln	1,000	800	62.5	50,000	1,400	1,100	66.4	73,000
Total	8,000	5,000	55.0	275,000	9,000	6,000	57.0	342,000
Southeast								
Columbia	500	400	67.5	27,000	600	500	72.0	36,000
Garfield	300	200	60.0	12,000	500	400	70.0	28,000
Whitman	400	300	40.0	12,000	2,900	2,200	61.8	136,000
Other Co.	2,800	2,100	70.0	147,000	500	400	60.0	24,000
Total	4,000	3,000	66.0	198,000	4,500	3,500	64.0	224,000
State Total	70,000	33,000	65.0	2,145,000	75,000	35,000	66.0	2,310,000

- Not Applicable.

CORN

Total grain corn production in 1987 decreased by one-third to 13,600,000 bushels, the smallest crop since 1980. Although the average yield remained at a record high of 170 bushels per acre, the acreage harvested decreased by 40,000 acres from the previous year. The production of silage corn decreased by more than 17 percent despite a record yield of 25 tons per acre. The primary reason for this decline was a decrease of 10,000 acres harvested.

Corn For Grain Acreage, Production and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Bushels	1,000 Bushels	$/Bu
1978	65	114	7,410	2.64
1979	97	123	11,931	2.93
1980	88	125	11,000	3.84
1981	114	130	14,820	3.05
1982	160	150	24,000	3.00
1983	110	160	17,600	3.62
1984	150	155	23,250	3.00
1985	135	160	21,600	2.65
1986	120	170	20,400	1.80
1987	80	170	13,600	2.10

Corn for Silage Acreage, Production and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Tons	1,000 Tons	$/Ton
1978	53	23	1,219	23.00
1979	50	22	1,100	25.00
1980	57	21	1,197	23.00
1981	49	21	1,029	23.50
1982	60	22	1,320	23.00
1983	50	23	1,150	25.00
1984	50	23	1,150	23.00
1985	55	22	1,210	22.00
1986	50	24	1,200	22.50
1987	40	25	1,000	22.00

Corn Grain Stocks

Crop Year	January *			April *			June *			October *		
	On-Farm	Off-Farm	Total Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total
	1,000 Bushels											
1978	2,964	4,148	7,112	1,112	3,747	4,859	593	3,536	4,129	148	4,307	4,455
1979	4,057	5,986	10,043	1,909	5,590	7,499	954	4,812	5,766	358	4,137	4,495
1980	3,850	4,132	7,982	2,310	5,853	8,163	1,430	1,945	3,375	330	2,471	2,801
1981	5,928	6,449	12,377	2,519	5,633	8,152	1,482	1,681	3,163	1,186	391	1,577
1982	6,720	3,552	10,272	3,600	3,023	6,623	1,920	1,727	3,647	960	2,172	3,132
1983	5,280	8,232	13,512	3,168	6,748	9,916	1,760	6,356	8,116	158	1,396	1,554
1984	7,440	11,393	18,833	2,093	5,422	7,515	1,163	1,593	2,756	116	944	1,060
1985	4,320	8,549	12,869	1/	4,712	1/	1/	2,433	1/	1/	2,170	1/
1986 2/	1/	9,126	1/	1/	6,125	1/	1/	5,112	1/	1/	6,301	1/
1987 2/	1/	10,698	1/	1/	7,749	1/	1/	3,840	1/	1/	NA	1/

1/ Not published to avoid disclosure of individual reports. 2/ Survey dates changed to December 1, March 1, June 1, and September 1 beginning with the 1986 crop.

* Following year.

Corn for Grain by County

County and District	1986 Acreage Planted All Purpose	1986 Acreage Harvested For Grain	1986 Yield Per Acre	1986 Production	1987 Acreage Planted All Purpose	1987 Acreage Harvested For Grain	1987 Yield Per Acre	1987 Production
	Acres		Bushels		Acres		Bushels	
West								
Other Co.	29,000	0	.0	0	23,500	0	.0	0
Total	29,000	0	.0	0	23,500	0	.0	0
Central								
Benton	36,000	32,800	197.3	6,470,000	25,300	23,700	201.0	4,764,000
Kittitas	400	0	.0	0	400	300	150.0	45,000
Klickitat	1,100	800	150.0	120,000	600	400	150.0	60,000
Okanogan	300	0	.0	0	200	0	.0	0
Yakima	19,200	13,200	152.0	2,006,000	13,500	7,700	151.4	1,166,000
Total	57,000	46,800	183.7	8,596,000	40,000	32,100	188.0	6,035,000
Northeast								
Other Co.	1,000	800	175.0	140,000	1,000	800	165.0	132,000
Total	1,000	800	175.0	140,000	1,000	800	165.0	132,000
East Central								
Adams	12,500	11,500	149.0	1,713,000	7,200	6,000	140.0	840,000
Franklin	25,800	24,700	170.0	4,198,000	20,000	18,600	166.0	3,088,000
Grant	34,700	27,200	151.0	4,106,000	21,500	16,500	145.5	2,401,000
Lincoln	500	0	.0	0	300	0	.0	0
Total	73,500	63,400	153.0	10,017,000	49,000	41,100	154.0	6,329,000
Southeast								
Walla Walla	9,500	9,000	183.0	1,647,000	6,500	6,000	184.0	1,104,000
Total	9,500	9,000	183.0	1,647,000	6,500	6,000	184.0	1,104,000
State Total	170,000	120,000	170.0	20,400,000	120,000	80,000	170.0	13,600,000

Corn for Silage by County

County and District	1986 Acreage Planted All Purpose	1986 Acreage Harvested For Silage	1986 Yield Per Acre	1986 Production	1987 Acreage Planted All Purpose	1987 Acreage Harvested For Silage	1987 Yield Per Acre	1987 Production
	Acres		Tons		Acres		Tons	
West								
Clark	3,000	3,000	20.5	61,500	2,400	2,400	19.0	45,500
Cowlitz	1,000	1,000	21.5	21,500	800	800	18.0	14,400
Grays Harbor	600	600	21.5	12,900	500	500	23.0	11,500
Island	700	700	23.0	16,100	600	600	19.0	11,400
King	1,200	1,200	23.0	27,600	1,000	1,000	24.0	24,000
Lewis	1,300	1,300	19.5	25,300	1,000	1,000	19.0	19,000
Pierce	900	900	19.4	17,500	700	700	25.0	17,500
Skagit	6,900	6,900	22.0	151,800	5,600	5,600	23.0	129,000
Snohomish	4,400	4,400	22.5	99,000	3,600	3,600	24.0	86,500
Thurston	300	300	22.0	6,600	200	200	22.0	4,400
Wahkiakum	500	500	22.0	11,000	400	400	25.0	10,000
Whatcom	8,000	8,000	22.7	181,200	6,500	6,500	25.0	162,800
Other Co.	200	200	20.0	4,000	200	200	25.0	5,000
Total	29,000	29,000	21.9	636,000	23,500	23,500	23.0	541,000
Central								
Benton	36,000	3,200	30.0	96,000	25,300	1,600	31.0	49,600
Kittitas	400	400	17.0	6,800	400	100	28.0	2,800
Klickitat	1,100	300	18.0	5,400	600	200	22.0	4,400
Okanogan	300	300	14.0	4,200	200	200	20.0	4,000
Yakima	19,200	6,000	25.4	152,600	13,500	5,800	29.0	168,200
Total	57,000	10,200	26.0	265,000	40,000	7,900	29.0	229,000
Northeast								
Other Co.	1,000	200	20.0	4,000	1,000	200	20.0	4,000
Total	1,000	200	20.0	4,000	1,000	200	20.0	4,000
East Central								
Adams	12,500	1,000	28.5	28,500	7,200	1,200	26.0	31,200
Franklin	25,800	1,100	26.5	29,200	16,900	1,400	32.0	44,800
Grant	34,700	7,500	28.9	216,800	24,600	5,000	26.0	130,100
Lincoln	500	500	17.0	8,500	300	300	23.0	6,900
Total	73,500	10,100	28.0	283,000	49,000	7,900	27.0	213,000
Southeast								
Walla Walla	9,500	500	24.0	12,000	6,500	500	26.0	13,000
Total	9,500	500	24.0	12,000	6,500	500	26.0	13,000
State Total	170,000	50,000	24.0	1,200,000	120,000	40,000	25.0	1,000,000

HAY

An unusually warm, dry fall in 1987 allowed extra cuttings of alfalfa hay to take place in several areas including a fourth cutting in Whitman County and fifth cutting in Grant County. Yield for the 1987 alfalfa crop, at 4.3 tons per acre, was up 2 percent from the previous year and equal to the record set in 1984. Alfalfa hay production, at 1,978 thousand tons, was up slightly from 1986 even though acreage decreased from 470,000 acres in 1986 to 460,000 acres in 1987. Harvested acreage of other types of hay in 1987, at 300,000 acres, was 17 percent lower than 1986. Yield from other types of hay in 1987 was lower than 1986 due to the unusually dry conditions in western Washington. Increased alfalfa hay production and surplus hay stocks resulted in the lowest average all price in a decade at $54.50 per ton. The value of the 1987 crop was $147,041,000.

Alfalfa Hay

Year	Acres Harvested	Yield Per Acre	Production
	1,000 Acres	Tons	1,000 Tons
1978	503	3.8	1,911
1979	503	3.6	1,811
1980	505	3.7	1,850
1981	500	3.7	1,813
1982	460	4.0	1,840
1983	440	4.0	1,760
1984	475	4.3	2,043
1985	450	3.9	1,755
1986	470	4.2	1,974
1987	460	4.3	1,978

Other Hay

Year	Acres Harvested	Yield Per Acre	Production
	1,000 Acres	Tons	1,000 Tons
1978	373	2.0	727
1979	350	2.0	683
1980	360	2.1	756
1981	355	2.0	746
1982	340	2.3	782
1983	350	2.5	875
1984	325	2.7	878
1985	350	2.4	840
1986	360	2.5	900
1987	300	2.4	720

Acreage, Production, Price, and Stocks

Crop Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price	Stocks	
					Jan. 1	May 1
	1,000 Acres	Tons	1,000 Tons	$/Ton	1,000 Tons	
1978	876	3.01	2,638	47.50	1,847	765
1979	853	2.92	2,494	71.00	1,621	424
1980	865	3.03	2,606	82.50	1,720	573
1981	855	2.97	2,559	67.00	1,663	512
1982	800	3.28	2,622	77.00	1,337	262
1983	790	3.34	2,635	78.50	1,528	237
1984	800	3.65	2,921	80.50	1,490	158
1985	800	3.24	2,595	84.50	1,246	182
1986	830	3.46	2,874	60.00	1,868	517
1987	760	3.55	2,698	54.50	2,104	405

1/ Per program modification, Hay stocks survey reference date was changed from Jan.1 to Dec. 1 beginning Dec. 1, 1986.

Hay by County, 1986

County and District	Alfalfa			Other Hay			All Hay		
	Harvested	Yield Per Acre	Production	Harvested	Yield Per Acre	Production	Harvested	Yield Per Acre	Production
	Acres	Tons		Acres	Tons		Acres	Tons	
West									
Clallam	2,900	4.14	12,000	4,700	2.32	10,900	7,600	3.01	22,900
Clark	2,500	3.20	8,000	13,000	2 54	33,000	15,500	2.65	41,000
Cowlitz	200	3.00	600	6,000	2.83	17,000	6,200	2.84	17,600
Grays Harbor	100	4.00	400	17,500	3.03	53,000	17,600	3.03	53,400
Island	1,800	2.78	5,000	4,800	1.88	9,000	6,600	2.12	14,000
Jefferson	100	4.00	400	3,000	1.67	5,000	3,100	1.74	5,400
King	100	3.00	300	9,700	2.27	22,000	9,800	2.28	22,300
Kitsap	-	-	-	1,500	2.00	3,000	1,500	2.00	3,000
Lewis	2,000	3.15	6,300	27,600	2.00	55,200	29,600	2.08	61,500
Mason	600	2.00	1,200	2,900	2.00	5,800	3,500	2.00	7,000
Pacific	200	3.50	700	6,500	2.26	14,700	6,700	2.30	15,400
Pierce	100	3.00	300	9,900	2.00	19,800	10,000	2.01	20,100
San Juan	100	3.00	300	4,600	1.80	8,300	4,700	1.83	8,600
Skagit	200	3.00	600	23,500	2.50	58,700	23,700	2.50	59,300
Skamania	200	2.50	500	500	2.00	1,000	700	2.14	1,500
Snohomish	200	4.00	800	21,000	2.52	53,000	21,200	2.54	53,800
Thurston	200	4.00	800	14,000	2.00	28,000	14,200	2.03	28,800
Wahkiakum	100	2.00	200	3,100	2.00	6,200	3,200	2.00	6,400
Whatcom	2,500	5.00	12,500	49,500	3.00	148,500	52,000	3.10	161,000
Total	14,100	3.61	50,900	223,300	2.47	552,100	237,400	2.54	603,000
Central									
Benton	16,700	5.30	88,500	500	3.00	1,500	17,200	5.23	90,000
Chelan	3,500	2.57	9,000	1,000	2.00	2,000	4,500	2.44	11,000
Kittitas	11,100	5.70	63,300	26,700	3.63	97,000	37,800	4.24	160,300
Klickitat	34,000	4.60	156,400	3,000	2.50	7,500	37,000	4.43	163,900
Okanogan	26,000	4.20	109,200	6,500	2.00	13,000	32,500	3.76	122,200
Yakima	30,900	4.80	148,300	6,500	2.92	19,000	37,400	4.47	167,300
Total	122,200	4.70	574,700	44,200	3.17	140,000	166,400	4.30	714,700
Northeast									
Ferry	11,000	2.73	30,000	3,200	1.56	5,000	14,200	2.46	35,000
Pend Oreille	6,000	3.00	18,000	20,800	2.02	42,000	26,800	2.24	60,000
Spokane	51,000	2.86	146,100	26,500	2.53	67,000	77,500	2.75	213,100
Stevens	43,000	2.70	116,100	10,000	1.70	17,000	53,000	2.51	133,100
Total	111,000	2.79	310,200	60,500	2.17	131,000	171,500	2.57	441,200
East Central									
Adams	19,500	6.20	120,900	3,700	3.51	13,000	23,200	5.77	133,900
Douglas	6,000	3.28	19,700	5,000	2.00	10,000	11,000	2.70	29,700
Franklin	58,500	6.22	364,000	500	2.80	1,400	59,000	6.19	365,400
Grant	91,500	3.65	333,600	3,500	3.00	10,500	95,000	3.62	344,100
Lincoln	12,100	3.17	38,300	7,400	2.73	20,200	19,500	3.00	58,500
Total	187,600	4.67	876,500	20,100	2.74	55,100	207,700	4.49	931,600
Southeast									
Asotin	1,400	2.57	3,600	1,000	1.00	1,000	2,400	1.92	4,600
Columbia	1,500	4.00	6,000	1,600	2.50	4,000	3,100	3.23	10,000
Garfield	1,400	4.00	5,600	1,400	1.50	2,100	2,800	2.75	7,700
Walla Walla	9,800	5.31	52,000	2,900	2.31	6,700	12,700	4.62	58,700
Whitman	21,000	4.50	94,500	5,000	1.60	8,000	26,000	3.94	102,500
Total	35,100	4.61	161,700	11,900	1.83	21,800	47,000	3.90	183,500
State Total	470,000	4.20	1,974,000	360,000	2.50	900,000	830,000	3.46	2,874,000

Hay by County, 1987

County and District	Alfalfa			Other Hay			All Hay		
	Harvested	Yield Per Acre	Production	Harvested	Yield Per Acre	Production	Harvested	Yield Per Acre	Production
	Acres	Tons		Acres	Tons		Acres	Tons	
West									
Clallam	2,900	4.00	11,600	3,200	2.50	8,000	6,100	3.21	19,600
Clark	2,500	3.32	8,300	10,000	2.30	23,000	12,500	2.50	31,300
Cowlitz	200	3.00	600	4,200	2.50	10,500	4,400	2.52	11,100
Grays Harbor	100	4.00	400	12,000	2.90	34,800	12,100	2.91	35,200
Island	1,800	2.50	4,500	4,000	1.70	6,800	5,800	1.95	11,300
Jefferson	100	4.00	400	2,500	1.60	4,000	2,600	1.69	4,400
King	100	3.00	300	8,100	2.00	16,200	8,200	2.01	16,500
Kitsap	-	-	-	1,200	2.00	2,400	1,200	2.00	2,400
Lewis	2,000	3.30	6,600	22,100	2.00	44,200	24,100	2.11	50,800
Mason	600	2.00	1,200	2,200	2.00	4,400	2,800	2.00	5,600
Pacific	200	2.00	400	5,200	2.50	13,000	5,400	2.48	13,400
Pierce	100	3.00	300	8,000	1.90	15,200	8,100	1.91	15,500
San Juan	100	3.00	300	3,500	1.60	5,600	3,600	1.64	5,900
Skagit	200	3.00	600	21,500	2.20	47,300	21,700	2.21	47,900
Skamania	200	2.50	500	500	2.00	1,000	700	2.14	1,500
Snohomish	200	3.50	700	17,000	2.40	40,800	17,200	2.41	41,500
Thurston	200	4.00	800	11,000	2.00	22,000	11,200	2.04	22,800
Wahkiakum	100	2.00	200	2,500	2.00	5,000	2,600	2.00	5,200
Whatcom	2,400	5.00	12,000	41,000	2.60	106,600	43,400	2.73	118,600
Total	14,000	3.55	49,700	179,700	2.29	410,800	193,700	2.38	460,500
Central									
Benton	16,000	5.40	86,400	1,000	2.20	2,200	17,000	5.21	88,600
Chelan	3,500	2.40	8,400	1,000	2.00	2,000	4,500	2.31	10,400
Kittitas	11,000	5.60	61,600	28,500	4.00	114,000	39,500	4.45	175,600
Klickitat	33,000	4.00	132,000	2,500	2.20	5,500	35,500	3.87	137,500
Okanogan	24,000	4.10	98,400	5,200	1.50	7,800	29,200	3.64	106,200
Yakima	30,000	4.80	144,000	7,000	2.70	18,900	37,000	4.40	162,900
Total	117,500	4.52	530,800	45,200	3.33	150,400	162,700	4.19	681,200
Northeast									
Ferry	10,000	2.70	27,000	2,000	1.50	3,000	12,000	2.50	30,000
Pend Oreille	6,000	2.60	15,600	16,500	1.60	26,400	22,500	1.87	42,000
Spokane	50,000	2.60	130,000	22,000	2.30	50,600	72,000	2.51	180,600
Stevens	43,000	2.70	116,100	8,000	1.70	13,600	51,000	2.54	129,700
Total	109,000	2.65	288,700	48,500	1.93	93,600	157,500	2.43	382,300
East Central									
Adams	17,000	6.10	103,700	3,500	3.60	12,600	20,500	5.67	116,300
Douglas	6,000	3.40	20,400	2,700	2.00	5,400	8,700	2.97	25,800
Franklin	61,000	6.30	384,300	600	3.00	1,800	61,600	6.27	386,100
Grant	92,000	4.60	423,200	4,000	3.50	14,000	96,000	4.55	437,200
Lincoln	12,000	3.00	36,000	7,000	2.40	16,800	19,000	2.78	52,800
Total	188,000	5.15	967,600	17,800	2.84	50,600	205,800	4.95	1,018,200
Southeast									
Asotin	1,100	2.00	2,200	900	1.00	900	2,000	1.55	3,100
Columbia	1,300	4.00	5,200	1,000	2.30	2,300	2,300	3.26	7,500
Garfield	1,100	4.00	4,400	1,000	1.50	1,500	2,100	2.81	5,900
Walla Walla	9,000	5.30	47,700	1,500	2.20	3,300	10,500	4.86	51,000
Whitman	19,000	4.30	81,700	4,400	1.50	6,600	23,400	3.77	88,300
Total	31,500	4.48	141,200	8,800	1.66	14,600	40,300	3.87	155,800
State Total	460,000	4.30	1,978,000	300,000	2.40	720,000	760,000	3.55	2,698,000

DRY BEANS

Dry bean harvested acreage in 1987 was 35,000 acres, up 13 percent from 1986. Yield at 2,130 pounds per acre was down 1 percent in 1987 from the preceding year. The average price received for dry beans by farmers in Washington in 1987 was $14.30 per cwt., the lowest level since 1982 and $3.50 lower than the previous year. Value of production for the 1987 crop was $10,668,000, 11 percent less than last year. Nationally, Washington ranked eighth in dry bean production.

Dry Beans by County

County	1986				1987			
	Acreage		Yield Per Acre	Production	Acreage		Yield Per Acre	Production
	Planted	Harvested			Planted	Harvested		
	Acres		Lbs.	Cwt.	Acres		Lbs.	Cwt.
Adams	6,000	5,800	2,280	132,000	6,600	6,400	2,270	145,000
Franklin	3,800	3,600	2,170	78,000	5,600	5,300	2,300	122,000
Grant	17,400	17,000	2,290	390,000	17,400	16,900	2,280	386,000
Other Co.	4,800	4,600	1,520	70,000	6,400	6,400	1,450	93,000
Total	32,000	31,000	2,160	670,000	36,000	35,000	2,130	746,000

Acreage, Yield, Production and Price

Year	Acreage		Yield Per Acre	Production	Season Avg. Price	Value of Production
	Planted	Harvested				
	Acres		Lbs.	Cwt.	$/Cwt.	1,000 Dollars
1978	32,000	31,000	1,700	527,000	17.60	9,275
1979	41,000	40,000	2,000	800,000	24.00	19,200
1980	55,000	54,000	2,000	1,080,000	27.50	29,700
1981	70,000	69,000	2,000	1,380,000	18.50	25,530
1982	38,000	37,000	2,070	766,000	13.50	10,341
1983	16,000	16,000	2,220	355,000	18.30	6,497
1984	35,000	34,000	2,080	707,000	17.80	12,585
1985	34,000	33,000	2,150	710,000	18.20	12,922
1986	32,000	31,000	2,160	670,000	17.80	11,926
1987	36,000	35,000	2,130	746,000	14.30	10,668

Dry Bean Varieties

Small Red

Year	Acres Harvested	Yield Per Acre	Production
	Acres	Lbs.	Cwt.
1978	8,500	1,800	153,000
1979	14,000	2,140	300,000
1980	16,100	2,300	370,000
1981	18,900	2,100	396,000
1982	14,500	2,030	294,000
1983	7,200	2,150	155,000
1984	8,000	2,100	168,000
1985	12,700	2,250	286,000
1986	12,900	2,360	304,000
1987	6,500	2,510	163,000

Pinto

Year	Acres Harvested	Yield Per Acre	Production
	Acres	Lbs.	Cwt.
1978	16,900	1,530	259,000
1979	16,200	1,890	306,000
1980	26,800	1,800	498,000
1981	31,700	2,030	643,000
1982	12,600	2,030	256,000
1983	3,400	2,290	78,000
1984	10,200	2,140	214,000
1985	9,200	2,160	199,000
1986	8,400	2,190	184,000
1987	11,200	2,220	249,000

Small White

Year	Acres Harvested	Yield Per Acre	Production
	Acres	Lbs.	Cwt.
1978	2,400	1,960	47,000
1979	6,800	1,840	125,000
1980	5,700	1,750	100,000
1981	8,300	1,950	162,000
1982	6,400	2,290	147,000
1983	4,000	2,330	93,000
1984	12,000	2,000	240,000
1985	8,900	2,020	180,000
1986	3,900	2,210	86,000
1987	9,500	2,190	208,000

Pink

Year	Acres Harvested	Yield Per Acre	Production
	Acres	Lbs.	Cwt.
1978	2,300	2,300	53,000
1979	1,900	2,740	52,000
1980	5,200	2,080	108,000
1981	10,000	1,770	177,000
1982	3,200	1,960	63,000
1983	1,100	2,000	22,000
1984	2,500	2,080	52,000
1985	1,600	2,000	32,000
1986	2,400	2,080	50,000
1987	1,100	2,450	27,000

POTATOES

A record average yield of 540 cwt. boosted State potato production in 1987 to a record 66,960,000 cwt. This record production level is an increase of 8 percent from the previous year's production of 61,950,000 cwt. Once again, Washington leads the nation with the highest average yield.

Growers harvested 124,000 acres in 1987, 2,000 acres less than the record 126,000 acres harvested in 1985, and 6,000 acres above the harvested acreage for 1986.

The lower prices and value of production for potatoes in 1987 were reflective of the large harvest. The average price dropped 15 percent to $3.65 per cwt. in 1987. The value of production decreased to $244 million, 8 percent below the previous year's and 17 percent below the 1984 record value of $293 million.

Potatoes: Acreage, Production, and Price

Crop Year	Acreage		Yield Per Harvested Acre	Production	Season Average Price	Value of Production
	Planted	Harvested				
	Acres		Cwt.	1,000 Cwt.	$/Cwt.	1,000 Dol.
1968	41,500	41,500	390	16,185	1.72	27,838
1969	51,000	51,000	430	21,930	1.55	33,992
1970	61,000	61,000	410	25,010	1.51	37,765
1971	58,000	58,000	395	22,910	1.40	32,074
1972	75,000	75,000	418	31,365	2.09	65,553
1973	84,000	82,000	430	35,260	2.90	102,254
1974	100,000	98,000	420	41,160	3.65	150,234
1975	107,000	105,000	460	48,300	3.15	152,145
1976	124,000	124,000	450	55,800	2.50	139,500
1977	110,000	110,000	460	50,600	2.80	141,680
1978	111,000	111,000	455	50,505	2.45	123,737
1979	102,000	102,000	475	48,450	2.55	123,548
1980	87,000	87,000	505	43,935	4.40	193,314
1981	108,000	108,000	490	52,920	3.95	209,034
1982	110,000	110,000	480	52,800	3.75	198,000
1983	104,000	104,000	520	54,080	4.25	229,840
1984	116,000	115,000	495	56,925	5.15	293,164
1985	127,000	126,000	505	63,630	3.45	219,524
1986	119,000	118,000	525	61,950	4.30	266,385
1987	124,000	124,000	540	66,960	3.65	244,404

Potatoes Used for Processing 1/

Area and Storage Season	Accumulated as of: Dec. 1	Jan. 1	Feb. 1	Mar. 1	Apr. 1	May 1	Entire Season
				1,000 Cwt.			
Washington and Other Area, Oregon							
1985-86	21,725	25,665	29,450	34,450	39,990	45,110	57,430
1986-87	21,530	25,510	28,530	33,595	39,610	44,865	56,910
1987-88	22,265	25,950	30,790	35,800	40,900	44,925	58,085
Maine 2/							
1985-86	2,215	2,935	3,845	4,630	5,540	6,290	8,660
1986-87	2,100	2,835	3,345	3,865	4,500	5,195	6,995
1987-88	1,770	2,440	3,145	3,745	4,410	4,865	6,745
Idaho & Malheur Co. Oregon							
1985-86	17,830	22,980	26,660	32,170	37,910	43,240	55,220
1986-87	13,200	17,980	21,910	27,070	33,360	38,970	55,470
1987-88	18,260	23,320	28,680	34,340	40,380	46,440	64,495
Other States 3/							
1985-86	6,470	7,990	9,900	12,020	13,860	16,095	22,245
1986-87	6,240	8,405	10,330	12,320	14,690	16,750	20,975
1987-88	5,750	7,370	9,200	11,250	13,305	15,270	20,155
Eight State Total							
1985-86	48,240	59,570	69,855	83,270	97,300	110,725	143,555
1986-87	43,070	54,730	64,115	76,850	92,160	105,780	140,350
1987-88	48,045	59,080	71,815	85,135	98,995	111,500	149,480

1/ Total quantity received and used for processing, regardless of the state in which the potatoes were produced.

2/ Includes Maine grown potatoes only.

3/ Michigan, Minnesota, North Dakota, and Wisconsin.

Fall Potato Production and Stocks

State and Crop Year	Production	Stocks Dec. 1	Jan. 1*	Feb. 1*	Mar. 1*	Apr. 1*	May 1*
				1,000 Cwt.			
Idaho							
1985	102,515	74,500	65,000	56,500	46,000	35,000	22,500
1986	90,220	70,500	63,000	57,000	50,000	40,000	27,500
1987	99,710	72,500	65,000	57,000	49,000	40,000	27,500
Oregon							
1985	26,888	18,500	15,700	13,300	10,500	8,000	5,800
1986	23,172	17,000	14,900	12,700	10,100	7,800	5,800
1987	25,924	17,900	16,100	14,200	11,800	9,500	7,500
Washington							
1985	63,630	33,500	30,000	25,700	21,000	16,200	9,700
1986	61,950	32,300	28,000	24,400	20,400	14,600	8,700
1987	66,960	36,600	32,900	28,300	22,800	17,500	12,600
Total 15 Major States							
1985	343,984	235,475	202,800	171,510	138,720	104,540	65,380
1986	307,501	209,280	180,800	154,490	128,700	95,090	59,790
1987	333,396	224,610	195,750	166,690	138,380	105,750	70,020

* Calendar year following year of production.

Potatoes by County

County and District	1986				1987			
	Acreage		Yield Per Acre	Production	Acreage		Yield Per Acre	Production
	Planted	Harvested			Planted	Harvested		
	Acres		Cwt.	1,000 Cwt.	Acres		Cwt.	1,000 Cwt.
West								
Clark	400	400	330	132	500	500	330	165
Grays Harbor	200	200	250	50	200	200	280	56
Pierce	100	100	200	20	3,400	3,400	345	1,173
Skagit	3,100	3,000	385	1,155	500	500	400	200
Whatcom	1,400	1,300	280	364	1,200	1,200	311	373
Other Counties	400	400	280	112	200	200	290	58
Total	5,600	5,400	339	1,833	6,000	6,000	338	2,025
Central								
Benton	22,300	22,200	550	12,210	22,700	22,700	565	12,821
Kittitas	1,000	1,000	380	380	1,100	1,100	420	462
Klickitat	1,100	1,100	280	308	1,200	1,200	460	552
Yakima	1,300	1,300	310	403	1,400	1,400	318	445
Other Counties	100	100	300	30	100	100	300	30
Total	25,800	25,700	519	13,331	26,500	26,500	540	14,310
Northeast								
Spokane	300	300	330	99	-	-	-	-
Stevens	200	200	300	60	300	300	333	100
Other Counties	-	-	-	-	200	200	300	60
Total	500	500	318	159	500	500	320	160
East Central								
Adams	16,900	16,800	490	8,232	17,300	17,300	560	9,680
Franklin	29,100	28,900	555	16,040	30,000	30,000	555	16,650
Grant	33,800	33,500	550	18,425	35,400	35,400	553	19,560
Other Counties	300	300	450	135	300	300	450	135
Total	80,100	79,500	539	42,832	83,000	83,000	555	46,025
Southeast								
Walla Walla	7,000	6,900	550	3,795	8,000	8,000	555	4,440
Total	7,000	6,900	550	3,795	8,000	8,000	555	4,440
State Total	119,000	118,000	525	61,950	124,000	124,000	540	66,960

- Not Applicable.

MINT

Washington was the leading spearmint oil producing State in 1987. Growers produced 1.4 million pounds of spearmint oil in 1987, accounting for 69 percent of the U.S. total. Production decreased 24 percent due to a decrease of 2,800 acres harvested in 1987 compared with 1986. Average yield decreased to 138 pounds per acre in 1987, but was still 52 pounds above the national average. The average price for Native Spearmint was higher for 1987, while Scotch Spearmint prices held steady.

In peppermint oil production, Washington ranks second in the U.S. behind Oregon. Washington growers accounted for 23 percent of total U.S. production, and Oregon accounted for 55 percent of U.S. production. Washington peppermint growers had the highest average yield in the U.S. at 87.0 pounds per acre, 19 pounds above the national average. Season average prices rose in 1987 to $10.80 per pound due to strong demand and improved markets.

NATIVE SPEARMINT
Acreage, Production and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	Acres	Pounds	1,000 Pounds	Dollars/ Pound
1978	14,600	92	1,340	5.40
1979	9,200	83	764	9.00
1980	11,800	107	1,258	8.50
1981	9,300	135	1,253	7.10
1982	3,400	128	435	9.00
1983	5,000	103	515	9.40
1984	6,800	115	784	10.00
1985	9,000	125	1,125	9.50
1986	8,000	156	1,244	9.00
1987	5,900	149	879	9.70

PEPPERMINT
Acreage, Production and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	Acres	Pounds	1,000 Pounds	Dollars/ Pound
1978	16,800	67	1,126	9.90
1979	14,000	60	840	9.10
1980	11,600	69	800	8.50
1981	8,300	78	647	8.50
1982	8,900	80	712	8.20
1983	9,500	80	760	9.40
1984	12,400	84	1,042	10.10
1985	13,200	87	1,148	8.30
1986	10,900	89	970	8.35
1987	11,500	87	1,001	10.80

SCOTCH SPEARMINT
Acreage, Production, and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	Acres	Pounds	1,000 Pounds	Dollars/ Pound
1978	11,800	90	1,062	8.40
1979	6,800	62	420	8.10
1980	4,200	59	246	9.90
1981	3,500	59	206	11.50
1982	3,500	69	241	14.70
1983	4,400	90	397	14.70
1984	4,500	104	470	14.50
1985	5,000	96	480	14.00
1986	5,000	123	615	14.00
1987	4,300	123	529	14.00

All Spearmint by County, 1986

County	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	1,000 Pounds
Central			
Benton	2,000	120.0	240
Yakima	9,000	150.0	1,350
Total	11,000	144.5	1,590
East Central			
Adams	900	127.8	115
Grant	1,100	140.0	154
Total	2,000	134.5	269
State Total	13,000	143.0	1,859

All Spearmint by County, 1987

County	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	1,000 Pounds
Central			
Benton	1,000	119.0	119
Yakima	7,600	143.2	1,088
Total	8,600	140.3	1,207
East Central			
Adams	600	120.0	72
Grant	1,000	129.0	129
Total	1,600	125.6	201
State Total	10,200	138.0	1,408

All Peppermint by County, 1986

County	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	Pounds
Central			
Yakima	6,200	90.0	558,000
Total	6,200	90.0	558,000
East Central			
Adams	800	80.0	64,000
Grant	3,000	91.0	273,000
Total	3,800	88.7	337,000
Other Counties	900	83.3	75,000
State Total	10,900	89.0	970,000

All Peppermint By County, 1987

County	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	Pounds
Central			
Yakima	6,800	81.1	599,000
Total	6,800	81.1	599,000
East Central			
Adams	800	77.5	62,000
Grant	3,000	89.0	267,000
Total	3,800	86.6	329,000
Other Counties	900	81.1	73,000
State Total	11,500	87.0	1,001,000

Native Spearmint by County, 1986

County	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	1,000 Pounds
Central			
Benton	500	132.0	66
Yakima	6,500	158.9	1,033
Total	7,000	157.0	1,099
East Central			
Adams	500	140.0	70
Grant	500	150.0	75
Total	1,000	145.0	145
State Total	8,000	156.0	1,244

Native Spearmint by County, 1987

County	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	1,000 Pounds
Central			
Benton	400	120.0	48
Yakima	4,600	153.9	708
Total	5,000	151.2	756
East Central			
Adams	300	140.0	42
Grant	600	135.0	81
Total	900	136.7	123
State Total	5,900	149.0	879

Scotch Spearmint by County, 1986

County	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	1,000 Pounds
Central			
Benton	1,500	116.0	174
Yakima	2,500	126.8	317
Total	4,000	122.8	491
East Central			
Adams	400	112.5	45
Grant	600	131.7	79
Total	1,000	124.0	124
State Total	5,000	123.0	615

Scotch Spearmint by County, 1987

County	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	1,000 Pounds
Central			
Benton	600	118.3	71
Yakima	3,000	126.7	380
Total	3,600	125.3	451
East Central			
Adams	300	100.0	30
Grant	400	120.0	48
Total	700	111.4	78
State Total	4,300	123.0	529

HOPS

Acreage, Production, and Price

Year	Washington				United States			
	Acres Harvested	Yield Per Acre	Production	Season Avg. Price	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Pounds	1,000 Pounds	Cents/ Pound	1,000	Pounds	1,000 Pounds	Cents/ Pound
1978	21.3	1,880	40,044	87.0	30.9	1,782	55,071	90.1
1979	22.3	1,800	40,140	95.8	31.8	1,727	54,929	97.6
1980	26.9	2,080	55,952	154.0	37.1	2,037	75,560	151.0
1981	31.3	1,900	59,470	150.0	43.1	1,836	79,140	151.0
1982	28.1	2,070	58,167	160.0	39.6	1,984	78,558	174.5
1983	26.5	1,930	51,145	180.0	36.9	1,846	68,111	193.0
1984	22.7	1,920	43,584	199.0	30.8	1,824	56,167	210.0
1985 1/	19.5	1,870	36,465	180.0	28.1	1,769	49,713	203.0
1986 1/	17.4	2,040	35,496	159.0	25.0	1,962	49,062	178.0
1987 1/	20.1	1,860	37,398	132.0	28.3	1,768	50,048	151.0

1/ California data is combined with Washington's to avoid disclosure of individual operations.

Hop Stocks

Year	March 1				September 1			
	Stocks Held By 1/			Total Stocks	Stocks Held By 1/			Total Stocks
	Growers 2/	Dealers	Brewers		Growers 2/	Dealers	Brewers	
	1,000 Lbs.							
1979	380	12,120	53,960	66,460	0	3,020	35,270	38,290
1980	0	14,700	47,300	62,000	0	1,380	31,420	32,800
1981	250	16,360	50,410	67,020	240	1,950	32,240	34,430
1982	1,400	16,000	54,290	71,690	1,200	2,090	43,740	47,030
1983	1,600	16,670	62,050	80,320	1,380	3,000	56,700	61,080
1984	1,360	19,530	79,440	100,330	1,360	6,256	60,480	68,096
1985	1,660	15,196	72,949	89,805	1,400	10,930	58,130	70,460
1986	1,960	15,720	72,240	89,920	1,390	8,930	60,630	70,950
1987	1,670	13,970	72,860	88,500	1,620	6,580	62,430	70,630
1988	1,950	13,640	66,980	82,570	1,750	9,160	49,090	60,000

1/ Includes equivalent pounds of dry hops held in form of extract or pellets.

2/ Includes growers' stocks held in extract form.

SEED CROPS

Overall, grass seed yields for most grass seeds remained steady. There was a slight increase in red clover seed yield even though most areas in the State experienced widely variable yields. Alfalfa seed yields were moderately lower.

Harvested acreage increased for most grass seeds in 1987. Kentucky bluegrass acreage increased to a level slightly above the 1985 acreage, while alfalfa seed and red clover acreage increased moderately.

The average price of Kentucky bluegrass exhibited a new record. Alfalfa seed prices rose slightly, but haven't reached those received in the 1979-1981 period. Red clover seed prices were variable, but overall were below the 1986 prices.

Acreage, Production, Price, and Value

Crop and Year 1/	Acreage Harvested	Yield Per Acre	Production	Average Price Per Cwt	Value of Production
	Acres	Cwt.	Cwt.	Dollars	1,000 Dollars
Alfalfa					
1980	21,000	3.65	76,650	118.00	9,045
1981	16,000	6.10	97,600	110.00	10,736
1985	21,000	6.70	140,700	100.40	14,127
1986	18,000	5.80	104,330	101.00	10,537
1987	19,000	5.60	106,400	105.00	11,172
Red Clover					
1980	5,700	3.00	17,100	84.50	1,445
1981	2,200	4.70	10,340	103.00	1,065
1985	3,000	4.60	13,800	96.90	1,337
1986	3,200	4.60	14,720	101.00	1,487
1987	4,500	4.90	22,050	89.00	1,962
Kentucky Bluegrass					
1980	29,200	6.26	182,660	52.44	9,578
1981	29,900	6.40	191,230	48.65	9,303
1985	34,000	2.40	81,600	102.40	8,356
1986	24,400	4.40	107,360	124.00	13,407
1987	35,000	4.40	154,000	126.00	19,404
Other Grass 2/					
1980	900	-	594	-	341
1981	400	-	232	-	121
1985	4,300	-	14,200	-	1,375
1986	1,600	-	7,200	-	720
1987	4,400	-	22,000	-	3,080
State Total					
1980	56,800	-	277,004	-	20,409
1981	48,500	-	299,402	-	21,225
1985	62,300	-	250,300	-	25,195
1986	47,200	-	233,610	-	26,151
1987	62,900	-	304,450	-	35,618

1/ Estimates not available for 1982-84 due to program modifications.
2/ Includes only turfgrass seeds for 1980-1981.
- Not Available.

Alfalfa Seed
by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Adams	1,000	6.5	6,500
Franklin	1,500	6.6	9,900
Grant	3,000	5.0	15,000
Walla Walla	12,000	5.9	70,800
Yakima	300	4.1	1,230
Other Co.	200	4.5	900
State Total	18,000	5.8	104,330

Alfalfa Seed
by County, 1987

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Franklin	1,500	7.0	10,500
Grant	3,000	6.0	18,000
Walla Walla	13,500	5.4	73,400
Other Co.	1,000	4.5	4,500
State Total	19,000	5.6	106,400

Kentucky Bluegrass Seed
by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Asotin	400	3.5	1,400
Columbia	700	5.0	3,500
Garfield	3,900	3.5	13,650
Spokane	15,100	4.7	70,970
Walla Walla	700	2.0	1,400
Whitman	3,200	4.9	15,680
Other Co.	400	1.6	760
State Total	24,400	4.4	107,360

Kentucky Bluegrass Seed
by County, 1987

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Adams	700	5.0	3,500
Columbia	700	3.0	2,100
Garfield	5,100	3.0	15,300
Spokane	21,500	4.9	105,850
Walla Walla	2,500	3.5	8,750
Whitman	3,500	4.4	15,400
Other Co.	1,000	3.1	3,100
State Total	35,000	4.4	154,000

Red Clover Seed by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Adams	100	5.4	540
Clark	500	3.0	1,500
Franklin	750	5.6	4,200
Grant	1,000	5.5	5,500
Spokane	350	2.8	980
Other Co.	500	4.0	2,000
State Total	3,200	4.6	14,720

Red Clover Seed by County, 1987

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Adams	400	5.0	2,000
Clark	400	4.5	1,800
Franklin	700	5.0	3,500
Grant	2,500	4.9	12,250
Other Co.	500	5.0	2,500
State Total	4,500	4.9	22,050

Other Grass Seed by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Garfield	250	4.5	1,125
Spokane	600	4.5	2,700
Other Co.	750	4.5	3,375
State Total	1,600	4.5	7,200

Other Grass Seed by County, 1987

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Franklin	300	7.0	2,100
Garfield	500	3.0	1,500
Lincoln	200	5.0	1,000
Spokane	2,100	5.0	10,500
Walla Walla	300	3.0	900
Other Co.	1,000	6.0	6,000
State Total	4,400	5.0	22,000

RAPESEED

Harvested acreage, and average yield dropped production significantly for rapeseed in 1987. Washington producers harvested 13,000 acres of rapeseed with an average yield of 1,385 pounds per acre in 1987 compared with 14,000 harvested acres and an average yield of 1,700 pounds per acre in 1986. Total production in 1987 was 18 million pounds and the value of production was at $1.35 million, both were down 24 percent from 1986.

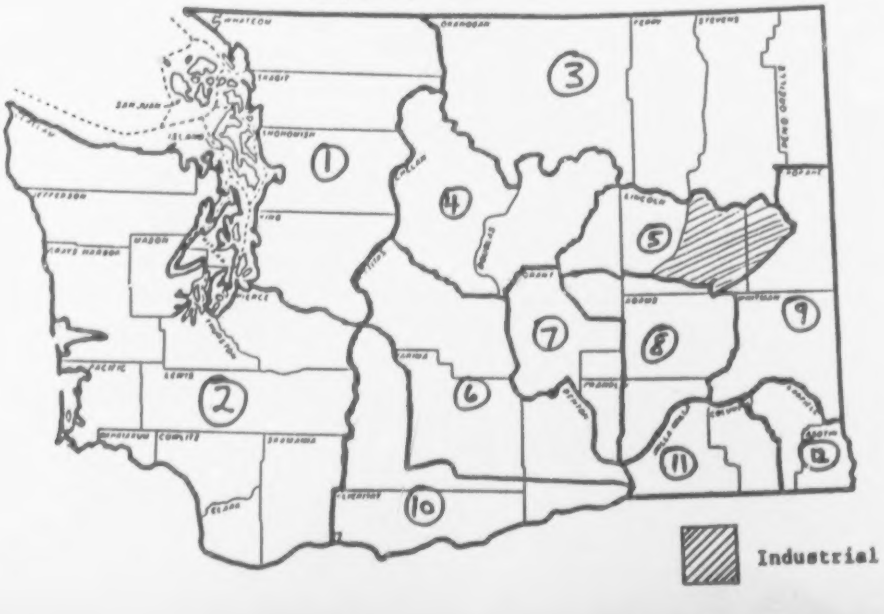
Rapeseed is a relatively new crop in Washington and estimates were started in 1986. Most of Washington's rapeseed acreage are edible varieties suitable for producing cooking oil, salad dressing, margarine, and other food products. The industrial types are high in erucic acid and are used to manufacture paints, soap, plastics, and other industrial products. In 1987, 83 percent of the rapeseed grown were of the edible type.

Edible and industrial types of rapeseed cannot be grown close together or close to vegetable seed crops due to a chance of cross-pollination with each other. Therefore, rapeseed districts were formed. There are currently 10 active districts and only the eastern half of of district 5 is designated for industrial varieties of rapeseed (see diagram below).

Acreage, Production, Price and Value

Crop Year and Seed Type	Acres Planted	Acres Harvested	Yield	Production	Price	Value of Production
			Pounds	1,000 Pounds	Per Pound	$1,000
1986						
Edible	12,000	11,000	1,710	18,820	.075	1,412.0
Inedible	3,000	3,000	1,660	4,980	.075	373.0
Total	15,000	14,000	1,700	23,800	.075	1,785.0
1987						
Edible	12,500	10,700	1,390	14,900	.075	1,117.5
Inedible	2,500	2,300	1,350	3,100	.075	232.5
Total	15,000	13,000	1,385	18,000	.075	1,350.0

Rapeseed Districts



FRUIT

Fruit General Information

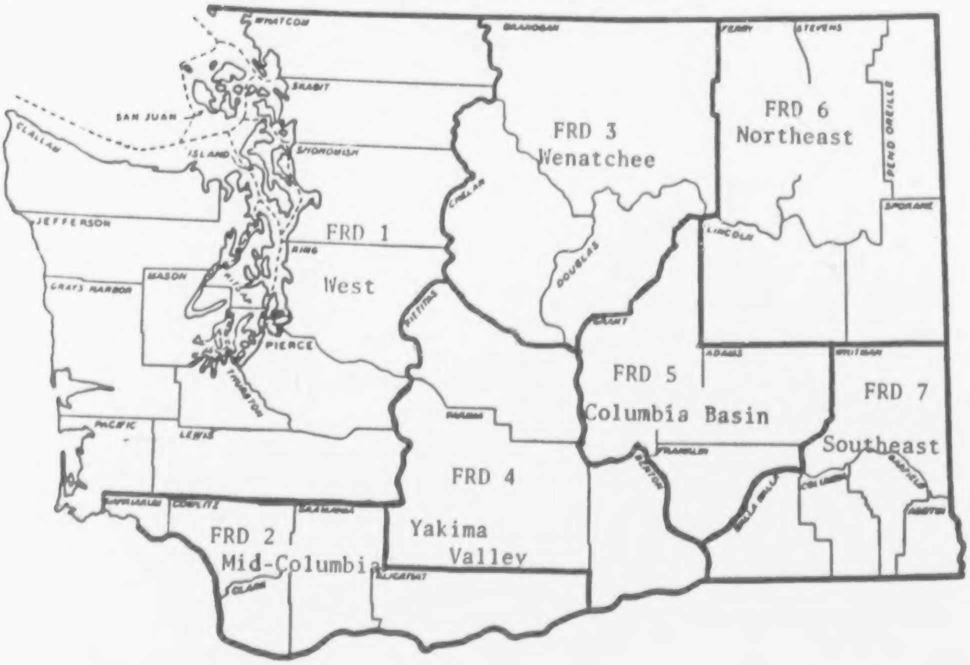
Washington is the third most important state in the United States in fruit production - second in the nation in the production of deciduous fruits (non-citrus varieties). There are two major fruit producing areas located in central Washington - one in the south-central portion including the Yakima Valley, and the other embracing the Wenatchee-Okanogan area in the north-central portion. However, the Columbia Basin district is gaining in importance as new plantings come into production.

The winter of 1986-87 was very mild in the State and no winter damage occurred. Eastern Washington experienced several cold nights in April, but only minimal damage had occurred to fruit crops. However, April generally produced favorable weather, particularly during the daytime for pollination. A heat wave occurred during May 4-11 and many high records were set throughout the State.

Washington is still the number one producer of apples, sweet cherries, and winter pears. Second ranking commodities for Washington are Bartlett pears and apricots. The State's orchardists produced a record crop of apples, winter pears, and grapes during 1987.

Value of fruit produced in Washington totaled $517 million, down 24 percent from last year's record value of $683 million.

Fruit Reporting Districts (FRD)


WHATCOM
SKAGIT
SAN JUAN
CLALLAM
ISLAND
SNOHOMISH
JEFFERSON
KING
GRAYS HARBOR
MASON
KITSAP
PIERCE
THURSTON
PACIFIC
LEWIS
WAHKIAKUM
COWLITZ
SKAMANIA
CLARK
KLICKITAT
YAKIMA
KITTITAS
CHELAN
OKANOGAN
DOUGLAS
GRANT
FERRY
STEVENS
PEND OREILLE
SPOKANE
LINCOLN
ADAMS
WHITMAN
FRANKLIN
BENTON
WALLA WALLA
COLUMBIA
GARFIELD
ASOTIN
FRD 1
West
FRD 2
Mid-Columbia
FRD 3
Wenatchee
FRD 4
Yakima
Valley
FRD 5
Columbia Basin
FRD 6
Northeast
FRD 7
Southeast

FRUIT AND NUT CROPS

Utilized Production, Price, and Value, Washington

Crop and Year	Bearing Acreage	Yield Per Acre	Total Production	Utilized Production	Average Price	Value of Utilized Production 1/
	Acres	Tons	Tons	Tons	$/Ton	1,000 Dollars
Apples						
1983	102,000	15.00	1,527,500	1,527,500	228.00	348,790
1984	105,000	14.05	1,475,000	1,475,000	222.00	326,220
1985	112,000	9.15	1,025,000	1,025,000	340.00	348,740
1986	126,000	12.55	1,580,000	1,580,000	310.00	488,400
1987	135,000	17.80	2,400,000	2,300,000	136.00	312,400
Apricots						
1983	600	4.83	2,900	2,900	604.00	1,751
1984	650	5.23	3,400	3,400	490.00	1,665
1985	700	3.43	2,400	2,400	628.00	1,508
1986	750	5.73	4,300	4,300	772.00	3,319
1987	850	4.59	3,900	3,900	709.00	2,765
Sweet Cherries						
1983	11,200	7.95	89,000	80,900	689.00	55,709
1984	10,900	6.24	68,000	55,800	729.00	40,654
1985	11,300	3.35	37,900	35,300	1,030.00	36,527
1986	11,900	5.25	62,500	62,500	951.00	59,437
1987	12,200	6.07	74,000	74,000	923.00	68,332
Tart Cherries						
1983	-	-	-	900	749.00	674
1984	-	-	-	690	964.00	665
1985	-	-	-	650	855.00	556
1986	-	-	-	900	631.00	568
1987	-	-	-	1,400	325.00	455
Bartlett Pears						
1983	10,900	12.90	140,800	140,800	180.00	25,325
1984	10,900	9.27	101,000	101,000	218.00	21,996
1985	11,300	9.82	111,000	111,000	248.00	27,484
1986	11,700	10.80	126,000	126,000	225.00	28,352
1987	12,100	14.10	171,000	171,000	189.00	32,322
Other Pears						
1983	9,400	14.70	138,000	138,000	171.00	23,648
1984	9,400	11.00	103,000	103,000	325.00	33,432
1985	9,600	11.90	114,000	114,000	365.00	41,642
1986	10,000	14.00	140,000	140,000	339.00	47,480
1987	10,800	15.30	165,000	165,000	210.00	34,573

- Not available.

Utilized Production, Price, and Value, Washington (continued)

Crop and Year	Bearing Acreage	Yield Per Acre	Total Production	Utilized Production	Average Price	Value of Utilized Production 1/
	Acres	Tons	Tons	Tons	$/Ton	1,000 Dollars
Peaches						
1983	2,400	6.04	14,500	14,500	430.00	6,244
1984	2,400	7.90	19,000	19,000	486.00	9,239
1985	2,300	6.75	15,500	15,500	476.00	7,365
1986	2,400	8.35	20,000	20,000	456.00	9,105
1987	2,500	8.60	21,500	21,500	330.00	7,076
Prunes						
1983	1,500	9.80	14,700	14,700	161.00	2,374
1984	1,500	12.90	18,000	18,000	151.00	2,716
1985	1,400	7.29	10,200	10,200	220.00	2,240
1986	1,400	6.50	9,100	9,100	366.00	3,329
1987	1,500	8.20	12,300	12,300	136.00	1,668
Grapes						
1983	25,700	8.83	227,000	225,700	152.00	34,252
1984	26,600	6.33	168,500	168,500	124.00	20,853
1985	27,000	4.30	116,100	116,100	178.00	20,642
1986	27,900	5.59	156,000	156,000	238.00	37,120
1987	28,200	8.85	249,500	246,000	225.00	55,356
Filberts						
1983	400	.50	-	200	720.00	144
1984	400	.50	-	200	875.00	175
1985	400	.75	-	300	957.00	287
1986	400	.50	-	200	895.00	179
1987	400	.75	-	300	1,160.00	348
Other 2/						
1983	-	-	-	7,400	-	3,230
1984	-	-	-	6,500	-	3,880
1985	-	-	-	5,400	-	3,030
1986	-	-	-	9,100	-	5,750
1987	-	-	-	5,200	-	1,870
State Total						
1983				2,153,500	233.17	502,141
1984				1,951,090	236.53	461,495
1985				1,435,850	341.28	490,021
1986				2,108,100	324.01	683,039
1987				3,000,600	172.35	517,165

1/ Price based at packinghouse door and processing plant door.
2/ Includes miscellaneous fruit and nuts.
- Not available.

Utilized Production by Area, Washington

Area and Year	Apples	Apricots	Sweet Cherries	Bartlett Pears	Other Pears	Peaches	Prunes
				Tons			
West							
1983	1,000	-	150	20	-	50	30
1984	1,000	-	130	20	-	40	40
1985	900	-	100	20	-	50	30
1986	800	-	100	20	-	70	20
1987	1,000	-	50	20	-	70	20
Mid-Columbia							
1983	3,500	30	1,200	5,500	6,700	250	80
1984	2,500	30	1,100	2,800	6,400	300	100
1985	2,400	30	800	2,800	6,900	400	80
1986	4,400	60	1,100	4,200	7,000	550	70
1987	7,200	60	1,200	6,400	9,000	550	60
Wenatchee							
1983	758,000	1,200	29,400	33,900	95,000	3,100	40
1984	630,000	1,600	19,300	14,000	64,000	2,600	30
1985	517,000	1,400	15,500	28,500	87,000	2,000	30
1986	600,000	1,550	17,000	24,400	96,500	2,700	40
1987	950,000	1,900	26,500	34,500	112,000	2,800	40
Yakima Valley							
1983	675,000	1,400	45,800	100,600	35,800	10,200	13,700
1984	742,000	1,500	31,500	83,500	32,100	14,900	17,100
1985	388,000	800	15,700	78,800	19,500	11,200	9,100
1986	785,000	2,200	39,000	96,000	35,700	13,900	7,900
1987	1,075,000	1,400	40,500	127,000	42,700	15,000	10,900
Columbia Basin							
1983	85,000	210	4,000	600	400	600	750
1984	95,000	210	3,500	500	400	860	670
1985	110,000	120	3,000	700	550	1,600	900
1986	180,000	400	5,000	1,240	750	2,500	1,000
1987	250,000	450	5,500	3,000	1,250	2,800	1,200
Northeast							
1983	4,000	30	300	40	100	150	30
1984	2,700	30	250	20	100	150	20
1985	3,200	30	180	20	50	150	20
1986	4,000	60	200	40	50	180	20
1987	6,800	60	100	20	50	180	20
Southeast							
1983	1,000	30	50	140	-	150	70
1984	1,800	30	20	160	-	150	40
1985	3,500	20	20	160	-	100	40
1986	5,800	30	100	100	-	100	50
1987	10,000	30	150	60	-	100	60
Total							
1983	1,527,500	2,900	80,900	140,800	138,000	14,500	14,700
1984	1,475,000	3,400	55,800	101,000	103,000	19,000	18,000
1985	1,025,000	2,400	35,300	111,000	114,000	15,500	10,200
1986	1,580,000	4,300	62,500	126,000	140,000	20,000	9,100
1987	2,300,000	3,900	74,000	171,000	165,000	21,500	12,300

- Not Applicable.

Harvesting Costs, Washington

Fruit	Picking Costs	Hauling Costs	Other Harvesting Costs	Total Harvesting Costs
		Dollars Per Bulk Bin		
Apples				
1983	8.80	2.15	1.92	12.87
1984	9.29	2.19	2.04	13.52
1985	9.68	2.21	2.01	13.90
1986	9.48	2.23	1.90	13.61
1987	10.08	2.47	1.90	14.45
		Dollars Per Ton		
Apricots				
1983	61.00	6.40	6.20	73.60
1984	63.80	5.20	7.00	76.00
1985	58.00	8.00	10.00	76.00
1986	55.20	6.30	6.50	68.00
1987	73.30	8.00	5.70	87.00
Sweet Cherries				
1983	203.50	12.60	16.90	233.00
1984	204.50	11.00	16.50	232.00
1985	216.00	12.20	17.80	246.00
1986	204.00	12.50	23.50	240.00
1987	222.00	12.50	12.50	247.00
Bartlett Pears				
1983	17.30	3.50	3.60	24.40
1984	15.80	3.60	3.30	22.70
1985	17.70	4.00	3.70	25.40
1986	16.80	3.60	3.50	23.90
1987	17.00	3.50	3.00	23.50
Other Pears				
1983	17.50	3.70	3.70	24.90
1984	16.20	3.70	3.80	23.70
1985	19.30	4.10	4.10	27.50
1986	17.30	3.40	3.30	24.00
1987	17.90	3.80	2.60	24.30
Peaches				
1983	36.00	9.00	9.00	54.00
1984	37.10	10.10	10.50	57.70
1985	39.40	6.40	10.00	55.80
1986	45.50	6.50	9.00	61.00
1987	46.00	6.90	5.40	58.30
Prunes				
1983	35.50	4.80	4.00	44.30
1984	36.40	6.60	6.10	49.10
1985	42.70	7.50	5.20	55.40
1986	43.80	4.40	3.80	52.00
1987	44.80	4.50	4.60	53.90

APPLES

Washington apple orchardists produced a record crop in 1987 with 4,800 million pounds (114.3 million boxes) which surpassed last year's previous high of 3,160 million pounds. The 1987 output was 52 percent more than the previous year with record volumes going to both the fresh market and processing channels. Processing apples, at 1,600 million pounds, was doubled the previous high of 800 million pounds processed from the 1983 crop.

The State had a very mild winter and no winter damage occurred. April temperatures were favorable for pollination and the crop had an excellent "King Bloom". The hot weather during August and September delayed harvest as growers were waiting for apples to get better color. But with a record crop to be picked, harvest started with a record amount of apples going to processors. Apples declined to third position on the State's value of production ranking as the average price dropped to 6.8 cents, the lowest level since 1975.

Production, Value, and Disposition

Year	Production		Average Price Per Lb.	Value of 1/ Utilized Production	Fresh Market		Processing	
	Total	Utilized			Quantity	Price/Lb.	Quantity	Price/Ton
	Million Pounds		Cents	1,000 Dollars	Million Pounds	Cents	Million Pounds	Dollars
1978	2,148	2,148	12.6	270,648	1,680	13.7	468	170.00
1979	2,619	2,619	12.7	332,613	1,860	15.5	759	114.00
1980	3,005	3,005	8.2	247,695	2,250	9.7	755	77.00
1981	2,760	2,760	10.9	301,530	2,070	13.4	690	70.00
1982	2,615	2,615	9.7	252,895	2,030	10.7	585	121.00
1983	3,055	3,055	11.4	348,790	2,255	13.8	800	94.00
1984	2,950	2,950	11.1	326,220	2,172	13.3	778	96.00
1985	2,050	2,050	17.0	348,740	1,590	20.4	460	105.00
1986	3,160	3,160	15.5	488,400	2,440	18.6	720	95.60
1987	4,800	4,600	6.8	312,400	3,000	9.4	1,600	37.00

1/ Prices based at packinghouse door and processing plant door.

Processed Apple Utilization

Year	Canned		Juice		Other		Total Quantity 1/
	Quantity	Price/ Ton	Quantity	Price/ Ton	Quantity	Price/ Ton	
	Million Pounds	Dollars	Million Pounds	Dollars	Million Pounds	Dollars	Million Pounds
1978	79	164.00	265	170.00	124	174.00	468
1979	100	132.00	491	108.00	168	121.00	759
1980	89	70.00	505	76.00	161	84.00	755
1981	97	87.00	430	65.00	163	73.00	690
1982	80	145.00	331	112.00	174	127.00	585
1983	99	112.00	440	85.00	261	102.00	800
1984	92	11[illegible].00	432	70.00	254	131.00	778
1985	80	129.00	236	78.00	144	134.00	460
1986	100	126.00	430	77.00	190	122.00	720
1987	145	73.20	1,215	28.40	240	65.30	1,600

1/ Includes frozen and dried utilization.

Apples: Holdings in Refrigerated Warehouses

Date	Washington			Pacific Region 1/			United States		
	1985-86	1986-87	1987-88	1985-86	1986-87	1987-88	1985-86	1986-87	1987-88
	Million Pounds								
Sept. 30	980	1,680	2,000	1,094	1,776	2,129	1,712	2,350	2,687
Oct. 31	1,602	2,418	3,409	1,789	2,537	3,618	3,668	4,143	5,390
Nov. 30	1,399	2,034	2,978	1,551	2,132	3,165	3,342	3,532	4,697
Dec. 31	1,188	1,744	2,547	1,319	1,822	2,258	2,725	2,892	3,312
Jan. 31	954	1,439	2,082	1,051	1,496	2,197	2,125	2,308	3,159
Feb. 28	747	1,138	1,665	818	1,178	1,749	1,550	1,721	2,417
Mar. 31	549	836	1,127	595	859	1,183	1,039	1,175	1,584
Apr. 30	356	583	822	384	596	864	613	752	1,093
May 31	*	*	*	221	367	507	267	386	552
Jun. 30	*	*	*	108	200	226	119	204	248
Jul. 31	*	*	*	22	74	79	25	75	95
Aug. 31	*	*	*	6	2	6	8	4	9

1/ Washington, Oregon, and California.
* Not published.

Refrigerated Space by Type of Warehouse, October 1

Storage	Cooler Space				Freezer Space				Total Space 1/			
	1981	1983	1985	1987	1981	1983	1985	1987	1981	1983	1985	1987
	Million Cubic Feet											
	Washington											
General Storages												
Gross Space	3.9	3.9	4.5	4.8	83	93	96	103	87	97	100	108
Usable Space	2.7	2.7	3.2	3.7	67	73	78	84	69	76	81	88
Apple Storages												
Gross Space	223	256	268	296	-	-	-	-	223	256	268	296
Usable Space	179	204	214	237	-	-	-	-	179	204	214	237
Total Storages												
Gross Space	227	260	272	301	83	93	96	103	310	353	368	404
Usable Space	181	207	217	241	67	73	78	84	248	280	295	325

1/ Total may not add due to rounding.
- Not applicable.

Cooler Capacity of Apple and Pear Storages, October 1

Storage	Washington				United States			
	1981	1983	1985	1987	1981	1983	1985	1987
	1,000 Boxes				1,000 Boxes			
Apple and Pear Storages								
Controlled Atmosphere	42,954	55,086	59,384	67,641	63,815	78,506	84,733	94,622
Regular Storage	46,277	46,824	47,639	50,849	103,683	103,193	107,486	109,912
Total	89,231	101,910	107,023	118,490	167,498	181,699	192,219	204,534

Grapes

Washington grape growers produced a record 249,500 tons during 1987, up 60 percent from 1986 and 10 percent more than the 1983 previous high of 227,000 tons. Production of Concords was 205,500 tons and the wine crop totaled 44,000 tons. Utilized production accounted for 246,000 tons as 3,500 tons of wine grapes were not harvested this year. Grapes added a record $55.4 million to the State's agricultural economy, 49 percent more than last year's high of $37.1 million. Neither Concords nor wine grapes had a record price, but the volume of production boosted the value of production of Washington's grapes.

White Reisling was again the dominant variety with 30 percent of the total crushing during 1987, and growers received $350 per ton, $110 less than the 1986 price. The highest price for any variety of wine grapes was $600 per ton for Cabernet Sauvignon with 2,470 tons being crushed.

Prices paid for Washington wine grapes averaged the highest in the Nation at $445 per ton for the 1987 crop and compares with the National average of $201 per ton. Washington's 1987 price is $84 less than 1986 and $205 below the record price in 1982 of $650 per ton. However, only 13,000 tons were crushed during that year. Washington is the number two producer of premium wine grapes in the United States.

Washington Wine Grapes by Variety

Variety by Color	Quantity Crushed 1985	Quantity Crushed 1986	Quantity Crushed 1987	Average Price 1985	Average Price 1986	Average Price 1987
		Tons			$/Ton	
White Varieties						
White Riesling	6,400	10,100	12,300	495	460	350
Chardonnay	2,050	3,960	7,500	768	590	542
Chenin Blanc	1,710	3,060	3,970	631	530	370
Semillon	1,070	1,980	2,820	640	594	464
Sauvignon Blanc	870	1,550	2,460	784	666	531
Gewurztraminer	1,040	2,020	2,300	371	431	348
Muscat Canelli	90	310	820	778	625	499
Others	480	550	630	477	328	336
Total	13,710	23,530	32,800	574	512	423
Red Varieties						
Cabernet Sauvignon	1,390	2,530	2,470	651	670	600
Merlot	800	1,070	2,150	616	645	586
Pinot Noir	330	350	650	656	691	597
Others 1/	870	1,020	2,430	364	375	424
Total	3,390	4,970	7,700	567	606	540
State Total	17,100	28,500	40,500	573	529	445

1/ Includes Pink Varieties

Production, Value, and Disposition 1/

Year	Production		Average Price Per Ton 1/	Value of Utilized Production	Fresh Market		Processing	
	Total	Utilized			Quantity	Price/Ton	Quantity	Price/Ton
	Tons		Dollars	1,000 Dol.	Tons	Dollars	Tons	Dollars
				Concord Grapes 2/				
1978	177,600	177,600	176	31,327	600	258	177,000	176
1979	100,200	100,200	195	19,588	300	308	99,000	195
1980	140,200	140,200	168	23,512	400	269	139,800	167
1981	150,500	150,500	170	25,572	500	289	150,000	170
1982	155,900	155,900	147	22,849	700	500	155,200	145
1983	205,700	204,400	117	23,815	700	395	203,700	115
1984	150,700	150,700	85	12,754	500	377	150,200	84
1985	99,000	99,000	110	10,844	300	484	98,700	108
1986	127,500	127,500	173	22,043	200	200	127,300	173
1987	205,500	205,500	182	37,333	400	240	205,100	182
				Wine Grapes				
1978	9,400	9,400	467	4,390	-	-	9,400	467
1979	2,600	2,600	532	4,383	-	-	2,600	532
1980	4,900	4,900	480	2,352	-	-	4,900	480
1981	8,500	8,500	533	4,350	-	-	8,500	533
1982	13,000	13,000	650	8,450	-	-	13,000	650
1983	21,300	21,300	490	10,437	-	-	21,300	490
1984	17,800	17,800	455	8,099	-	-	17,800	455
1985	17,100	17,100	573	9,798	-	-	17,100	573
1986	28,500	28,500	529	15,077	-	-	28,500	529
1987	44,000	40,500	445	18,023	-	-	40,500	445
				All Grapes				
1978	187,000	187,000	191	35,717	600	258	186,400	191
1979	102,800	102,800	204	20,971	300	308	102,500	204
1980	145,100	145,100	178	25,865	400	269	144,700	178
1981	159,000	159,000	189	30,102	500	289	158,500	189
1982	168,900	168,900	185	31,299	700	500	168,200	184
1983	227,000	225,700	152	34,252	700	395	225,000	151
1984	168,500	168,500	124	20,853	500	377	168,000	123
1985	116,100	116,100	178	20,642	300	484	115,800	177
1986	156,000	156,000	238	37,120	200	200	155,800	238
1987	249,500	246,000	225	55,356	400	240	245,600	225

1/ Prices based at packinghouse door and processing plant door.

2/ Includes minor quantities of American hybrids used primarily for juice. Processing segment is juice utilization.

APRICOTS

Apricot producers received $709 per ton, an 8 percent decline from last year's record price of $772. Harvest was underway in late June and continued throughout July.

Since the late 1960's, production has generally ranged from 2 to 4 thousand tons compared with the high level of 20 thousand tons in the late 1940's.

Production, Value, and Disposition

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production
	Total	Utilized		
	Tons		Dollars	1,000 Dol.
1978	2,700	2,700	279.00	753
1979	2,500	2,500	346.00	865
1980	2,500	2,500	386.00	965
1981	1,300	1,300	593.00	771
1982	3,000	2,900	531.00	1,540
1983	2,900	2,900	604.00	1,751
1984	3,400	3,400	490.00	1,665
1985	2,400	2,400	628.00	1,508
1986	4,300	4,300	772.00	3,319
1987	3,900	3,900	709.00	2,765

1/ Prices based at packinghouse door and processing plant door.

PEACHES

Washington peach production during 1987 was 21.5 million tons, 8 percent more than last year's output. Harvest started the last week of June, about 10 days earlier than normal, with general picking during July and August. Peach harvest was generally finished in early September. Washington was the seventh largest producer of peaches in both 1987 and 1986, but only accounted for 1.7 percent of the National production.

Production, Value, and Disposition

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production
	Total	Utilized		
	Tons		Dollars	1,000 Dol.
1978	19,000	19,000	288	5,472
1979	15,500	15,500	322	4,991
1980	15,500	15,500	358	5,549
1981	10,000	10,000	472	4,719
1982	13,500	13,500	446	6,021
1983	14,500	14,500	430	6,244
1984	19,000	19,000	486	9,239
1985	15,500	15,500	476	7,365
1986	20,000	20,000	456	9,105
1987	21,500	21,500	330	7,076

1/ Prices based at packinghouse door and processing plant door.

SWEET CHERRIES

Sweet cherries added a record $68.3 million to the agricultural economy during 1987. Orchardists produced 74,000 tons, the second highest output since the 1983 record crop of 89,000 tons. Washington was the number one producer of sweet cherries with 35 percent of the National production, while Washington and Oregon accounted for nearly 60 percent.

Production, Value, and Disposition

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production	Fresh Market		Processing	
	Total	Utilized			Quantity	Price/Ton	Quantity	Price/Ton
	Tons		Dollars	1,000 Dol.	Tons	Dollars	Tons	Dollars
1978	59,300	59,300	792.00	46,966	39,400	879.00	19,900	620.00
1979	67,600	67,600	608.00	41,101	47,500	670.00	20,100	463.00
1980	52,000	48,300	624.00	30,139	37,200	715.00	11,100	319.00
1981	46,400	44,400	934.00	41,479	31,800	1,134.00	12,600	430.00
1982	66,000	50,800	746.00	37,888	36,100	885.00	14,700	404.00
1983	89,000	80,900	689.00	55,709	63,500	774.00	17,400	377.00
1984	68,000	55,800	729.00	40,654	42,500	868.00	13,300	283.00
1985	37,900	35,300	1,030.00	36,527	20,200	1,430.00	15,100	506.00
1986	62,500	62,500	951.00	59,437	44,100	1,140.00	18,400	498.00
1987	74,000	74,000	923.00	68,332	49,500	1,130.00	24,500	506.00

1/ Prices based at packinghouse door and processing plant door.

Processed Cherry Utilization

Year	Canned		Brined		Other		Total
	Quantity	Price/Ton	Quantity	Price/Ton	Quantity	Price/Ton	Quantity
	Tons	Dollars	Tons	Dollars	Tons	Dollars	Tons
1978	2,400	753.00	12,900	659.00	4,600	442.00	19,900
1979	3,600	572.00	12,800	466.00	3,700	347.00	20,100
1980	2,200	499.00	5,300	318.00	3,600	212.00	11,100
1981	1,700	645.00	7,200	418.00	3,700	353.00	12,600
1982	2,500	703.00	7,100	361.00	5,100	316.00	14,700
1983	2,700	570.00	7,100	407.00	7,600	282.00	17,400
1984	1,800	527.00	5,600	245.00	5,900	245.00	13,300
1985	3,000	714.00	7,700	534.00	4,400	315.00	15,100
1986	2,500	575.00	12,000	471.00	3,900	531.00	18,400
1987	3,800	667.00	12,500	531.00	8,200	394.00	24,500

BARTLETT PEARS

Bartlett pears added a record $32.3 million to Washington's agricultural economy during 1987. Production, at 171,000 tons, is just slightly below the 1944 record output of 172,125 tons. Good pollination plus ideal temperatures promoted good pear sizing and growers harvested a good, clean crop.

Production, Value, and Disposition

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production	Fresh Market		Processing	
	Total	Utilized			Quantity	Price/Ton	Quantity	Price/Ton
	Tons		Dollars	1,000 Dol.	Tons	Dollars	Tons	Dollars
1978	132,000	132,000	205.00	27,060	39,900	277.00	92,100	174.00
1979	153,000	153,000	180.00	27,540	36,300	230.00	116,700	165.00
1980	143,000	143,000	185.00	26,459	32,900	242.00	110,100	169.00
1981	144,500	144,500	147.00	21,303	42,400	199.00	102,100	126.00
1982	141,300	141,300	154.00	21,736	44,600	199.00	96,700	133.00
1983	140,800	140,800	180.00	25,325	56,400	253.00	84,400	131.00
1984	101,000	101,000	218.00	21,996	24,500	342.00	76,500	178.00
1985	111,000	111,000	248.00	27,484	33,300	389.00	77,700	187.00
1986	126,000	126,000	225.00	28,352	39,500	363.00	86,500	162.00
1987	171,000	171,000	189.00	32,322	56,000	187.00	115,000	190.00

1/ Prices based at packinghouse door and processing plant door.

OTHER PEARS

Washington producers set a record output during 1987 with 165,000 tons, which also places the State as the number one producer Nationally. The combined output between Washington and Oregon accounts for over 95 percent of the winter pear production across the Nation.

Production, Value, and Disposition

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production
	Total	Utilized		
	Tons		Dollars	1,000 Dol.
1978	114,000	114,000	228	25,992
1979	93,000	93,000	269	25,017
1980	113,000	113,000	249	28,112
1981	130,800	130,800	260	34,049
1982	123,500	123,500	245	30,269
1983	138,000	138,000	171	23,648
1984	103,000	103,000	325	33,432
1985	114,000	114,000	365	41,642
1986	140,000	140,000	339	47,480
1987	165,000	165,000	210	34,573

1/ Prices based at packinghouse door and processing plant door.

Prunes

Prune producers in Washington harvested 12,300 tons in 1987, 35 percent above last year's record low output of 9,100 tons. Growers received only $136 per ton, down $230 from the 1987 record price of $366 per ton.

Production, Value, and Disposition

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production	Fresh Market		Processing	
	Total	Utilized			Quantity	Price/Ton	Quantity	Price/Ton
	Tons		Dollars	1,000 Dol.	Tons	Dollars	Tons	Dollars
1978	21,300	21,300	149.00	3,174	15,300	172.00	6,000	89.10
1979	14,700	14,700	192.00	2,822	12,100	219.00	2,600	69.10
1900	23,100	23,100	149.00	3,436	18,000	170.00	5,100	73.80
1981	14,600	14,600	116.00	1,688	11,200	133.00	3,400	58.20
1982	11,500	11,500	300.00	3,454	10,050	340.00	1,450	25.30
1983	14,700	14,700	161.00	2,374	12,100	189.00	2,600	33.30
1984	18,000	18,000	151.00	2,716	11,400	189.00	6,600	85.00
1985	10,200	10,200	220.00	2,240	7,200	284.00	3,000	64.90
1986	9,100	9,100	366.00	3,329	7,400	437.00	1,700	55.70
1987	12,300	12,300	136.00	1,668	7,600	164.00	4,700	86.00

1/ Prices based at packinghouse door and processing plant door.

FILBERTS

In 1987, filbert producers harvested 300 tons of filberts with an average price of $1,160 per ton. After the 1962 Columbus Day wind storm, filbert acreage declined to the current 400 acre level which has remained stable during the past decade. Clark County has about half of the State's filbert trees, while the remainder are located between Seattle and the Canadian border.

Production, Value, and Disposition

Year	Utilized Production	Average Price Per Ton	Value of Utilized Production	Production		Meat Production Of Nuts Sold Shelled
				Sold In Shell	Sold Shelled	
	Tons	Dollars	1,000 Dol.	1,000 Pounds		
1978	350	835	292	250	100	80
1979	300	970	291	230	70	60
1980	300	1,181	354	199	101	84
1981	300	770	231	200	100	80
1982	400	677	271	170	230	140
1983	200	720	144	150	50	20
1984	200	875	175	120	80	30
1985	300	957	287	250	50	20
1986	200	895	179	150	50	20
1987	300	1,160	348	150	150	60

VEGETABLES

Warm, dry weather early in the spring encouraged field preparation and rapid crop development. Asparagus harvest got underway the first week in April but was briefly interrupted by frosts. Harvest of radishes, lettuce and rhubarb was underway west of the Cascades. Planting of early vegetables began in April and continued through early summer.

By mid-June, Walla Walla sweet onion harvest was underway, and by month's end, asparagus harvest was completed. Green pea harvest was wrapped up two weeks later. Crops generally looked good, but some non-irrigated crops suffered from moisture stress.

Carrot and storage onion harvest began the first week of August and continued through early December. Harvest of sweet corn and snap beans for processing were also beginning around this time. Roadside stands were offering customers a full variety of produce as cantaloupes, watermelons, cucumbers, squash, peppers, tomatoes, and other late season vegetables were coming ripe. Light frosts in mid-September hastened the harvest of vegetables vulnerable to cold weather, and by the end of October, vegetable season was mostly over except for crops like carrots and storage onions which were being harvested for several more weeks.

Record levels for harvested acreage set in 1986 were broken in 1987 for asparagus, carrots, and onions. Production records for carrots set in 1986 and for onions set in 1984 were also broken in 1987. The green pea yield record set in 1971 was broken during the 1987 vegetable season. Overall, there were 151,300 acres of vegetables harvested in the State in 1987, up 2 percent from 1986. Production of fresh and processing vegetables were, respectively, 6,008,000 cwt. and 13,416,000 cwt. The value of the 1987 crop was estimated at $173,381,000, up 7 percent from the previous year.

Vegetable Crops: Acreage, Production, Price, and Value

Crop and Year	Acreage Harvested	Yield Per Acre	Production	Average Price Per Cwt.	Value of Utilized Production	Fresh Market		Processing	
						Production	Average Price Per Cwt	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars	1,000 Dol.	1,000 Cwt.	Dollars	1,000 Cwt.	Dollars
Asparagus									
1983 1/	29,300	23	684.	51.40	35,158	201	72.80	483	42.50
1984	29,000	25	725.	51.70	37,454	217	72.60	508	42.70
1985	29,000	28	812.	52.30	42,443	242	68.80	570	45.25
1986	30,000	26	780.	52.10	40,612	290	67.30	490	43.05
1987	31,000	26	806.	49.90	40,257	237	63.30	569	44.40
Carrots									
1983	4,000	400	1,600.	5.54	8,871	388	16.60	1,212	2.01
1984	4,300	425	1,828.	5.99	10,941	453	16.50	1,375	2.52
1985	5,200	435	2,262.	4.98	11,257	456	14.10	1,806	2.67
1986	5,800	415	2,407.	5.10	12,270	481	17.10	1,926	2.10
1987	6,600	460	3,036.	4.29	13,021	703	11.90	2,333	2.00
Cucumbers For Pickles 2/									
1984	1,500	223.6	335.4	8.10	2,717	-	-	335.4	8.10
1985	1,700	197.6	336.0	9.25	3,108	-	-	336.0	9.25
1986	1,700	180.0	306.0	8.00	2,448	-	-	306.0	8.00
1987	1,700	199.6	339.4	9.00	3,055	-	-	339.4	9.00
Green Peas, Proc.									
1983	65,600	29.8	1,954.8	10.25	20,037	-	-	1,954.8	10.25
1984	64,400	34.0	2,189.6	12.30	26,932	-	-	2,189.6	12.30
1985	61,500	32.0	1,968.0	12.00	23,616	-	-	1,968.0	12.00
1986	47,600	34.2	1,628.0	12.55	20,431	-	-	1,628.0	12.55
1987	41,500	41.2	1,709.8	12.70	21,714	-	-	1,710.0	12.70
Lettuce, Fresh									
1983	1,000	220	220.	14.00	3,080	220	14.00	-	-
1984	1,100	210	231.	14.60	3,373	231	14.60	-	-
1985	1,100	190	209.	13.00	2,717	209	13.00	-	-
1986	1,200	180	216.	14.70	3,175	216	14.70	-	-
1987	1,200	200	240.	14.90	3,576	240	14.90	-	-

1/ Data provided by the Washington Asparagus Growers Association. Estimate program reinstated in 1984.
2/ 1983 included in Other Processed Vegetables. Estimate program reinstated in 1984.
- Not applicable.

Vegetable Crops: Acreage, Production Price, and Value (Continued)

Crop and year	Acreage Harvested	Yield Per Acre	Production	Average Price Per Cwt.	Value of Utilized Production	Fresh Market Production	Fresh Market Average Price Per Cwt.	Processing Production	Processing Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars	1,000 Dol.	1,000 Cwt.	Dollars	1,000 Cwt.	Dollars
Onions-Non Stge.									
1983	1,200	410	492	8.28	4,074	492	8.28	-	-
1984	1,200	360	432	13.50	5,832	432	13.50	-	-
1985	1,300	300	390	17.40	6,786	390	17.40	-	-
1986	1,300	330	429	9.55	4,097	429	9.55	-	-
1987	1,400	380	532	12.90	6,863	532	12.90	-	-
Onions-Stge. 1/									
1983	3,500	440	1,540	14.10	17,484	1,540	14.10	-	-
1984	4,300	450	1,935	9.07	14,512	1,935	9.07	-	-
1985	4,300	410	1,763	4.97	6,754	1,763	4.97	-	-
1986	4,400	420	1,848	12.90	19,673	1,848	12.90	-	-
1987	5,000	460	2,300	10.60	20,479	2,300	10.60	-	-
Snap Beans-Proc.									
1983	1,400	78.8	110.4	7.35	811	-	-	110	7.35
1984	1,100	67.0	73.8	11.15	823	-	-	74	11.15
1985	1,500	62.0	93.0	8.35	777	-	-	93	8.35
1986	1,200	81.7	98.0	10.10	990	-	-	98	10.10
1987	1,100	90.2	99.2	9.90	982	-	-	99	9.90
Sweet Corn-Fresh									
1983	2,600	85	221	13.50	2,984	221	13.50	-	-
1984	2,800	105	294	15.40	4,528	294	15.40	-	-
1985	3,300	110	363	13.20	4,792	363	13.20	-	-
1986	3,200	120	384	11.10	4,262	384	11.10	-	-
1987	3,200	130	416	9.31	3,873	416	9.31	-	-
Sweet Corn-Proc.									
1983	38,300	182.4	6,986.0	3.04	21,203	-	-	6,986	3.04
1984	32,900	149.4	4,915.2	3.40	16,712	-	-	4,915	3.40
1985	38,900	168.0	6,535.2	3.43	22,448	-	-	6,535	3.43
1986	35,300	167.4	5,909.2	3.43	20,269	-	-	5,909	3.43
1987	44,600	180.4	8,045.8	3.36	26,994	-	-	8,046	3.36
Other-Fresh									
1983	7,000	-	1,060	-	20,993	1,060	-	-	-
1984	7,900	-	1,118	-	23,558	1,118	-	-	-
1985	9,300	-	1,437	-	28,178	1,437	-	-	-
1986	10,800	-	1,546	-	30,847	1,546	-	-	-
1987	9,300	-	1,580	-	29,267	1,581	-	-	-
Other-Proc.									
1983	4,800	-	456	-	4,075	-	-	456	-
1984	3,800	-	160	-	2,300	-	-	160	-
1985	3,600	-	334	-	3,100	-	-	334	-
1986	5,200	-	322	-	3,200	-	-	322	-
1987	4,700	-	320	-	3,300	-	-	320	-
State Total									
1983	158,700		15,659.0		138,770	4,122		11,537	-
1984	154,300		14,237.6		149,682	4,680		9,558	-
1985	160,700		16,472.2		155,976	4,860		11,612	-
1986	147,700		15,873.2		162,274	5,194		10,679	-
1987	151,300		19,424.2		173,381	6,008		13,416	-

1/ Includes some quantities of storage crop onions harvested but not sold because of shrinkage and waste.
- Not applicable.

ASPARAGUS

The record for asparagus harvested acreage set in 1986 was broken in 1987. Prices were generally lower than those received by farmers in the previous four years. Harvest got underway the first week of April in Walla Walla County and the second week of April in the lower Yakima Valley. Frost briefly interrupted asparagus harvest in April, but no serious damage was reported. Warm temperatures in May accelerated the growth of asparagus and harvest had to be stepped up. Temperatures later cooled off and harvest continued at a normal pace. By the end of June, asparagus harvest was mostly completed.

Harvested acreage in 1987 was 31,000 acres, 3 percent more than in 1986. Average yield was 26 cwt. per acre, the same as the previous year, and production at 806,000 cwt. was 3 percent greater than in 1986. The average price for Washington asparagus was $49.90 per cwt., 4 percent less than the 1986 average.

Acreage, Production, and Price

Year	Harvested Acreage	Yield Per Acre	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars
1978	21,000	32	672	36.20
1979	21,000	28	588	44.80
1980	22,200	23	511	40.90
1981	23,700	25	593	49.40
1982 1/	28,400	24	682	48.60
1983 1/	29,300	23	684	51.40
1984	29,000	25	725	51.70
1985	29,000	28	812	52.30
1986	30,000	26	780	52.10
1987	31,000	26	806	49.90

1/ Estimates by Washington Asparagus Growers Association.

Asparagus by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Benton	2,100	24.3	51,000
Yakima	11,900	26.5	315,000
Franklin	9,200	26.0	239,000
Grant	900	27.8	25,000
Walla Walla	5,500	25.5	140,000
Other Co.	400	25.0	10,000
State Total	30,000	26.0	780,000

Asparagus by County, 1987

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Benton	2,100	23.3	49,000
Yakima	11,900	29.0	345,000
Franklin	10,100	25.0	252,000
Grant	900	24.4	22,000
Walla Walla	5,500	22.9	126,000
Other Co.	500	24.0	12,000
State Total	31,000	26.0	806,000

CARROTS

For the second consecutive year, Washington carrot growers produced a record breaking crop. Both acreage and production were record levels and yield was the highest since 1980. Seventy-seven percent of the 1987 crop was used for processing and 23 percent was sold fresh market. Prices were down in 1987 from previous years reaching the lowest level since 1982.

Harvested acres at 6,600 was 800 acres higher than 1986. Yield per acre increased 45 pounds per acre from 1986 to 460 pounds per acre in 1987. Total production for 1987 was 3,036,000 cwt, 26 percent higher than in 1986. The average price per cwt dropped from 5.10 in 1986 to 4.29 per cwt in 1987. The value of the crop was 13,021,000 dollars, 751,000 dollars more than the 1986 crop.

Acreage, Production, and Price

Year	Harvested Acreage	Yield Per Acre	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars
1978	4,500	404	1,820	2.84
1979	5,000	447	2,237	3.74
1980	4,150	467	1,938	5.74
1981	4,400	400	1,760	5.56
1982	4,800	435	2,088	3.56
1983	4,000	400	1,600	5.54
1984	4,300	425	1,828	5.99
1985	5,200	435	2,262	4.98
1986	5,800	415	2,407	5.10
1987	6,600	460	3,036	4.29

Carrots by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Adams	200	420.0	84,000
Benton	200	400.0	80,000
Cowlitz	200	370.0	74,000
Franklin	1,800	435.0	783,000
Grant	950	491.6	467,000
Klickitat	200	425.0	85,000
Skagit	600	460.0	276,000
Thurston	300	400.0	120,000
Whatcom	1,000	300.0	300,000
Yakima	100	400.0	40,000
Other Co.	250	392.0	98,000
State Total	5,800	415.0	2,407,000

Carrots by County, 1987

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt	Cwt.
Adams	100	430.0	43,000
Benton	300	430.0	129,000
Cowlitz	250	380.0	95,000
Franklin	2,000	480.0	960,000
Grant	1,300	510.0	663,000
Klickitat	250	460.0	115,000
Skagit	700	500.0	350,000
Thurston	400	440.0	176,000
Whatcom	900	380.0	342,000
Yakima	100	430.0	43,000
Other Co.	300	400.0	120,000
State Total	6,600	460.0	3,036,000

SWEET CORN

The sweet corn crop benefited from hot, dry weather late in the growing season, and growers produced their largest crop since 1982. Sweet corn acreage was 47,800 acres in 1987, up 24 percent from 1986. Average yield was 177 cwt. per acre, up 9 percent from the previous year. The combined increases in acreage and yield boosted production to 8,461,800 cwt., 34 percent higher than 1986. Prices in 1987 were down with the average price at $3.65 per cwt., 25 cents per cwt. lower than 1986.

Acreage, Production, and Price

Year	Harvested Acreage	Yield Per Acre	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars
1978	43,500	149	6,500	3.15
1979	43,200	151	6,537	3.55
1980	39,500	160	6,324	3.27
1981	44,600	154	6,865	3.48
1982	54,600	176	9,621	3.73
1983	40,900	176	7,207	3.36
1984	35,700	146	5,209	4.08
1985	42,200	163	6,898	3.95
1986	38,500	163	6,293	3.90
1987	47,800	177	8,462	3.65

Sweet Corn by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	1,000 Cwt.
Benton	2,700	193.2	521,600
Clark	500	141.0	70,500
Cowlitz	1,100	131.8	145,000
Franklin	4,000	146.3	585,000
Grant	13,500	177.3	2,394,000
Kittitas	4,000	152.7	610,600
Lewis	1,100	127.3	140,000
Skagit	1,000	129.8	129,800
Walla Walla	3,500	179.4	628,000
Whatcom	500	87.4	43,700
Yakima	6,400	156.9	1,004,200
Other Co.	200	103.0	20,600
State Total	38,500	163.5	6,293,000

Sweet Corn by County, 1987

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	1,000 Cwt.
Benton	3,600	187.8	676,000
Clark	600	163.3	98,000
Cowlitz	1,300	147.7	192,000
Franklin	5,400	172.2	930,000
Grant	17,400	193.7	3,370,000
Kittitas	4,500	192.9	868,000
Lewis	1,200	135.0	162,000
Skagit	1,200	135.0	162,000
Walla Walla	2,800	170.7	478,000
Whatcom	900	115.6	104,000
Yakima	8,600	161.1	1,385,800
Other Counties	300	120.0	36,000
State Total	47,800	177.0	8,461,800

GREEN PEAS - PROCESSING

Green pea acreage in 1987, at 41,500 harvested acres, declined for the fifth straight year and reached the lowest level since 1942. Most of the acreage taken out of production was located east of the Cascades on land with historically lower yields. Taking the lower producing ground out of production helped the State's green pea growers to lead the Nation in yield with an average of 41 cwt. (2.06 tons) per acre in 1987. The 1987 yield was also a State record. Green pea production, at 1,710 thousand cwt., was up 5 percent from last year as Washington maintained its position as the Nation's third largest green pea producer behind Wisconsin and Minnesota. Oregon, our neighbor to the south, ranked fourth with 872 thousand cwt. The average price for green peas in the State was a record high $12.70 per cwt., and the total value of the Washington crop was up 6 percent from 1986 to a level of $21,714,000.

Acreage, Production, and Price

Year	Harvested Acreage	Yield Per Acre	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars
1978	75,000	32	2,370	10.20
1979	81,100	34	2,790	11.10
1980	57,800	33	1,907	9.65
1981	59,600	30	1,764	10.15
1982	67,700	32	2,166	11.75
1983	65,600	30	1,955	10.25
1984	64,400	34	2,190	12.30
1985	61,500	32	1,968	12.00
1986	47,600	34	1,628	12.55
1987	41,500	41	1,710	12.70

Green Peas by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Columbia	2,400	12.5	30,000
Franklin	1,000	42.0	42,000
Grant	2,700	48.9	132,000
Grays Harbor	1,670	35.9	60,000
Lewis	4,180	37.3	156,000
Skagit	14,600	47.8	698,000
Snohomish	2,030	46.3	94,000
Walla Walla	11,580	15.7	182,000
Whatcom	2,980	45.0	134,000
Whitman	4,020	19.9	80,000
Other Counties	440	45.5	20,000
State Total	47,600	34.2	1,628,000

Green Peas by County, 1987

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Columbia	1,000	25.0	25,000
Grant	900	53.3	48,000
Grays Harbor	1,500	40.7	61,000
Lewis	4,300	39.3	169,000
Skagit	14,000	49.9	698,000
Snohomish	3,100	52.3	162,000
Walla Walla	8,300	29.0	241,000
Whatcom	4,000	45.5	182,000
Whitman	4,000	25.3	101,000
Other Counties	400	57.0	22,800
State Total	41,500	41.2	1,709,800

SNAP BEANS - PROCESSING

There were 1,100 acres of Washington snap beans contracted for processing in 1987, down 8 percent from 1986. Yields, at 90 cwt. per acre, were at their highest level since 1966. Total production rose 1 percent from 1986 to 99 thousand cwt. The average price in 1987, at $9.90 per cwt., was 20 cents lower than in 1986. Total value for the 1987 snap bean crop was $982 million, down $8 million from last year. Washington ranked tenth in the Nation in snap bean production in 1987.

Acreage, Production, and Price

Year	Harvested Acreage	Yield Per Acre	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars
1978	2,100	62	130	7.05
1979	2,300	79	181	7.95
1980	2,400	76	181	8.15
1981	1,600	61	97	8.55
1982	2,100	70	148	8.30
1983	1,400	79	110	7.35
1984	1,100	67	74	11.15
1985	1,500	62	93	8.35
1986	1,200	82	98	10.10
1987	1,100	90	99	9.90

Snap Beans by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Walla Walla	480	79.2	38,000
Whatcom	720	83.3	60,000
State Total	1,200	81.7	98,000

Snap Beans by County, 1987

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Walla Walla	300	80.0	24,000
Whatcom	800	94.0	75,200
State Total	1,100	90.2	99,200

MUSHROOMS

Mushroom production in Washington for 1987 increased for the eighth consecutive year. Production has gradually increased from 3,326,000 pounds in 1979 to 7,501,000 pounds in 1987. Fillings in 1987 increased 4 percent from the previous year to 1.92 million square feet and production is up 16 percent. The average price in Washington rose to 100.5 cents per pound and total value of production rose to $7.5 million.

Acreage, Production, Price, and Value

Year	Total Fillings	Production	Price Per Pound	Value Of Production
	1,000 Square Feet	1,000 Lbs.	Dollars	$1,000
1977-78	1,320	4,020	.900	3,617
1978-79	1,571	3,326	.969	3,223
1979-80	1,740	3,380	1.090	3,671
1980-81	1,446	4,038	1.170	4,713
1981-82	1,108	4,705	1.210	5,688
1982-83	1,195	4,799	1.140	5,474
1983-84	1,196	4,891	1.060	5,186
1984-85	1,640	5,417	.965	5,229
1985-86	1,844	6,485	.966	6,263
1986-87	1,916	7,501	1.010	7,576

DRY ONIONS

Mild winter weather helped onion growers obtain favorable yields in 1987. Crop conditions were generally good, but fluctuating temperatures caused onions to be smaller in some growing areas.

Harvested acreage for storage and non-storage onions was up from 1986 by 600 and 100 acres, respectively. The storage onion yield was 460 cwt. per acre, up 10 percent from 1986, and the non- storage onion yield was 380 cwt., a 27 percent increase from the previous year. Production of both types of onions were at record levels with storage onions at 2,300,000 cwt. and non-storage onions at 532,000 cwt. The price of storage onions, at $10.60 per cwt. was 18 percent lower than in 1986, but the price of non- storage onions, at $12.90, was up 35 percent from the previous year. Total value for both crops was at a record high; $20,479,000 for storage onions and $6,863,000 for non-storage onions.

Nationally, Washington ranked seventh in production of storage onions and third in production of non-storage onions.

Acreage, Production, and Price

Year	Harvested Acreage	Yield Per Acre	Production 1/	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars
1978	3,900	380	1,482	9.40
1979	4,650	395	1,838	6.50
1980	4,080	387	1,577	11.14
1981	4,500	400	1,800	14.85
1982	4,750	378	1,797	5.98
1983	4,700	432	2,032	12.45
1984	5,500	430	2,367	10.04
1985	5,600	384	2,153	6.29
1986	5,700	399	2,277	10.44
1987	6,400	443	2,832	9.65

1/ Includes shrinkage and loss.

Dry Onions by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Adams	1,200	425.0	510,000
Benton	500	392.0	196,000
Franklin	300	380.0	114,000
Grant	1,700	410.0	697,000
Walla Walla	1,300	400.0	520,000
Yakima	600	350.0	210,000
Other Co.	100	300.0	30,000
State Total	5,700	399.5	2,277,000

Dry Onions by County, 1987

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Adams	1,200	430.0	516,000
Benton	500	430.0	215,000
Franklin	400	410.0	164,000
Grant	1,900	490.0	931,000
Walla Walla	1,600	420.0	672,000
Yakima	600	410.0	246,000
Other Co.	200	440.0	88,000
State Total	6,400	443.0	2,832,000

LETTUCE

Lettuce acreage in 1987, at 1,200 acres, remained unchanged from 1986, but yield, at 200 cwt. per acre, was 11 percent higher. Total lettuce production in 1987 was 240 thousand cwt., up 11 percent from 1986. The average price in 1987, at $14.90 per cwt., broke the record price set in 1986 by 20 cents per cwt. Total value of the 1987 crop was $3,576 million, 13 percent greater than in 1986.

Washington ranked 12th in the Nation in lettuce production in 1987.

Acreage, Production, and Price

Year	Harvested Acreage	Yield Per Acre	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars
1978	1,200	170	204	7.90
1979	1,200	170	204	11.70
1980	1,200	200	240	12.80
1981	1,200	195	234	13.30
1982	1,200	180	216	11.10
1983	1,000	220	220	14.00
1984	1,100	210	231	14.60
1985	1,100	190	209	13.00
1986	1,200	180	216	14.70
1987	1,200	200	240	14.90

Lettuce by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Clark	200	190.0	38,000
King	180	150.0	27,000
Pierce	450	193.3	87,000
Spokane	100	240.0	24,000
Other Co.	270	148.1	40,000
State Total	1,200	180.0	216,000

Lettuce by County, 1987

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Clark	150	180.0	27,000
King	150	160.0	24,000
Pierce	600	230.0	138,000
Spokane	100	190.0	19,000
Other Co.	200	160.0	32,000
State Total	1,200	200.0	240,000

BERRIES

Berries: Acreage, Production, Price, and Value

Crop and Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.	Value of Utilized Production	Fresh Market		Processing	
						Production	Average Price Per Lb.	Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents	1,000 Dol.	1,000 Lbs.	Cents	1,000 Lbs.	Cents
Cultivated Blackberries									
1983	160	4,250	680	30.0	204	190	54.8	490	20.4
1984	160	5,000	800	44.5	356	200	58.0	600	40.0
1985	150	4,700	705	53.2	375	315	62.0	390	46.0
1986	150	3,800	570	51.1	292	170	75.0	400	41.0
1987	150	5,400	810	40.1	325	260	62.0	550	29.8
Blueberries									
1983	900	8,000	7,200	64.4	4,637	2,250	73.1	4,950	60.5
1984	800	6,000	4,800	49.8	2,390	1,700	64.0	3,100	42.0
1985	800	6,875	5,500	62.9	3,462	2,100	79.7	3,400	52.6
1986	800	3,625	2,900	69.7	2,022	1,100	81.5	1,800	62.5
1987	900	7,000	6,300	68.4	4,312	2,400	81.5	3,900	60.4
Cranberries 1/									
1983	1,100	11,360	12,500	52.5	6,563	1,330	-	10,930	-
1984	1,100	9,360	10,300	55.4	5,706	980	-	9,070	-
1985	1,200	12,330	14,800	55.5	8,214	4,070	-	10,630	-
1986	1,200	8,330	10,000	53.1	5,310	4,620	-	5,340	-
1987	1,200	10,830	13,000	53.1	6,903	-	-	-	-
Black Raspberries									
1983	110	1,000	110	51.4	57	10	65.0	100	50.0
1984	100	850	85	55.3	47	15	59.0	70	55.0
1985	100	950	95	138.9	132	25	135.0	70	140.0
1986	100	700	70	165.7	116	14	170.0	56	165.0
1987	100	1,100	110	50.4	55	23	55.0	87	49.2
Red Raspberries									
1983	3,000	5,800	17,400	43.0	7,482	1,740	83.4	15,660	38.5
1984	3,000	5,450	16,350	49.2	8,047	1,150	78.5	15,200	47.0
1985	3,200	5,250	16,800	56.1	9,433	1,000	75.9	15,800	54.9
1986	3,300	4,200	13,860	75.8	10,509	1,040	86.0	12,820	75.0
1987	3,600	6,400	23,040	52.6	12,109	1,300	93.6	21,740	50.1
Strawberries									
1983	3,100	6,200	19,200	40.5	7,777	3,700	51.0	15,500	38.0
1984	3,000	7,000	21,000	25.8	5,424	2,200	50.0	18,800	23.0
1985	3,000	7,100	21,300	32.7	6,971	2,300	47.0	19,000	31.0
1986	2,800	5,000	14,000	46.4	6,500	2,000	55.0	12,000	45.0
1987 2/	2,500	9,600	24,000	34.1	8,180	2,500	52.0	21,500	32.0
Other Berries									
1983	50	-	80	-	30	-	-	-	-
1984	30	-	50	-	20	-	-	-	-
1985	90	-	180	-	70	-	-	-	-
1986	110	-	180	-	110	-	-	-	-
1987	160	-	770	-	230	-	-	-	-
State Total									
1983	8,420	-	57,170	-	26,750	-	-	-	-
1984	8,190	-	53,385	-	21,990	-	-	-	-
1985	8,540	-	59,380	-	28,657	-	-	-	-
1986	8,460	-	41,580	-	24,859	-	-	-	-
1987	8,610	-	68,030	-	32,114	-	-	-	-

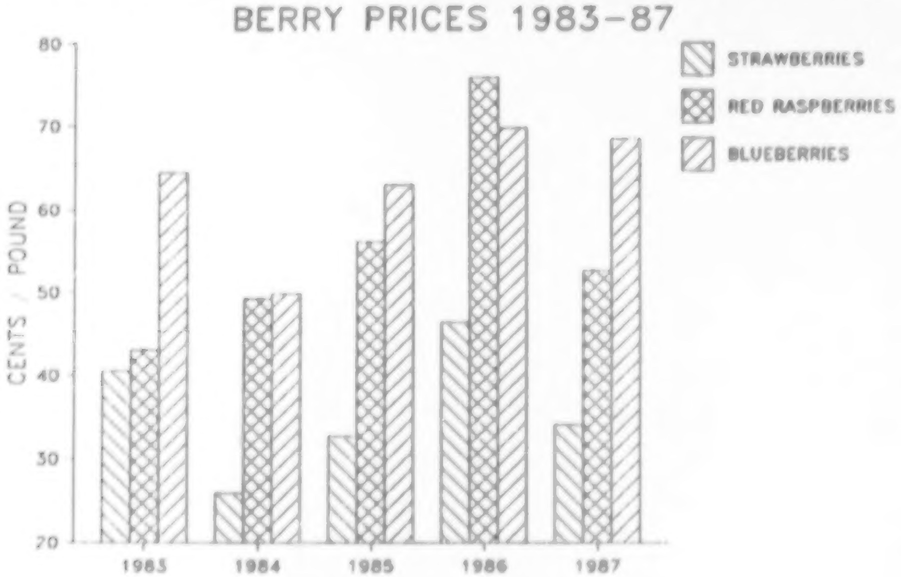
1/ Utilized Production includes berries lost because of dehydration and berry breakdown after delivery: 1983=240,000 lbs.; 1984=250,000 lbs.; 1985=100,000 lbs.; 1986=40,000 lbs. Average 1986 price used for 1987. Price data will be available January 1989.

2/ Excludes 50,000 cwt. not harvested because of market conditions.

- Not Available.

BERRIES

A mild winter and warm spring temperatures combined to help yields climb to near record highs for Washington berry crops. The largest yield increases were in blueberries, strawberries, and red raspberries with respectively 93 percent, 92 percent, and 52 percent increases over 1986. Acreage remained near the same level for most varieties, but yield lifted production to near record levels. Red raspberry production in 1987 was the highest since 1948 and strawberry production was highest since 1976. Increased supplies translated into lower prices for producers, as prices were down for all major berry varieties.



BLACK RASPBERRIES

Black raspberry plants continued to recover from winter damage and some old black raspberry acreages were replaced by new plants to help black raspberry production increase from the three previous years. Dry summer weather stressed nonirrigated black raspberry crops, but irrigated crops had excellent yields. Pests and diseases were not a major problem for the 1987 crop and berry quality was excellent.

Harvested acreage remained unchanged from the previous year, at 100 acres. Black raspberry average yield at 1,100 pounds per acre was the highest since 1982. Production was 110,000 pounds, up 57 percent from the 1986 crop, which was damaged by winter freeze injury and spring frosts. Black raspberry prices dropped sharply from $1.66 per pound in 1986 to $0.50 per pound in 1987.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1978	130	1,360	177	75.0
1979	130	2,200	286	86.7
1980	120	1,460	175	41.0
1981	120	670	80	26.1
1982	110	1,230	135	29.6
1983	110	1,000	110	51.4
1984	100	850	85	55.3
1985	100	950	95	138.9
1986	100	700	70	165.7
1987	100	1,100	110	50.4

STRAWBERRIES

Warm temperatures early in the year brought strawberry blossoms out sooner than normal. By May first, strawberries in most areas were in full bloom. The picking season began early and in some areas, there were not enough berry pickers to harvest all the strawberries. U-pick farms in western Washington capitalized on higher than normal yields and a slightly elongated harvest season.

Harvested acres, at 2,500, were 300 acres lower than last year. Yield per acre increased 4,600 pounds to 9,600 pounds per acre. Total production was 24 million pounds, 21 percent higher than in 1986 and was the highest total since 1976. The average price per pound received by growers dropped 12.3 cents per pound from 1986 to 34.1 cents per pound in 1987.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1978	3,300	5,300	17,500	25.4
1979	3,100	5,300	16,400	34.7
1980	2,900	6,000	17,400	34.7
1981	2,800	6,000	16,800	38.3
1982	3,000	6,200	18,600	43.4
1983	3,100	6,200	19,200	40.5
1984	3,000	7,000	21,000	25.8
1985	3,000	7,100	21,300	32.7
1986	2,800	5,000	14,000	46.4
1987	2,500	9,600	24,000	34.1

Strawberries by County, 1986

County	Acreage Harvested	Production
	Acres	1,000 Lbs.
Clallam	50	225
Clark	100	600
King	300	1,580
Kitsap	50	265
Lewis	100	200
Pierce	330	1,485
Skagit	750	3,075
Snohomish	280	1,370
Spokane	60	250
Thurston	90	390
Whatcom	600	4,200
Other Counties	90	360
State Total	2,800	14,000

Strawberries by County, 1987

County	Acreage Harvested	Production
	Acres	1,000 Lbs.
Clark	90	882
King	250	2,350
Kitsap	60	372
Lewis	70	392
Pierce	280	2,576
Skagit	660	7,194
Snohomish	270	2,322
Spokane	80	584
Thurston	50	400
Whatcom	550	5,720
Other Counties	140	1,208
State Total	2,500	24,000

RED RASPBERRIES

Red Raspberry production in 1987 was the highest in Washington State since 1948. The increase in production was mostly due to higher yields brought on by favorable weather and an absence of disease. Early warm temperatures and dry weather developed berries earlier than normal and lenghthened the berry picking season. The weather was dry during most of the season which provided excellent conditions during picking. Late in the season, some crops were stressed by the lack of moisture.

Harvested acreage increased 300 acres from 1986 to 3,600 acres in 1987. Yield per acre in 1987 averaged 6,400 pounds, up 52 per cent from the winter damaged crop of 1986. Utilized production for 1987 was 23,040,000 pounds, up 66 percent from 1986. The average price per pound in 1987 was 52.6 cents, 23.2 cents per pound lower than the average price received by growers in 1986.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1978	2,600	5,100	13,260	70.4
1979	2,600	4,900	12,740	69.5
1980	2,800	4,500	12,600	37.3
1981	3,000	4,750	14,250	52.0
1982	3,100	5,700	17,670	67.3
1983	3,000	5,800	17,400	43.0
1984	3,000	5,450	16,350	49.2
1985	3,200	5,250	16,800	56.1
1986	3,300	4,200	13,860	75.8
1987	3,600	6,400	23,040	52.6

Red Raspberries by County, 1986

County	Acreage Harvested	Production
	Acres	1,000 Lbs.
Clark	425	1,700
King	55	165
Kitsap	40	160
Lewis	50	100
Pierce	400	1,480
Skagit	450	2,430
Snohomish	130	585
Spokane	50	175
Whatcom	1,500	6,000
Yakima	25	120
Other Counties	175	945
State Total	3,300	13,860

Red Raspberries by County, 1987

County	Acreage Harvested	Production
	Acres	1,000 Lbs.
Clark	420	2,600
King	70	410
Kitsap	40	180
Lewis	40	170
Pierce	360	2,200
Skagit	450	2,600
Snohomish	120	600
Spokane	50	200
Whatcom	1,780	12,650
Yakima	30	130
Other Counties	240	1,300
State Total	3,600	23,040

BLUEBERRIES

Excellent yields and high quality characterized Washington's 1987 blueberry crop. The season began earlier than normal, as warm spring temperatures brought blueberry bushes out of dormancy early. Blueberries were in bloom by May 10th and harvest began the first week of July. By August 16th, all but the late varieties had been picked. Harvest of late varieties was completed by the first week of September.

Blueberry acreage in 1987 was 900 acres, up 100 acres from 1986. Yield increased by 3,375 pounds per acre to 7,000 pounds per acre in 1987. The 1987 yield was the highest since 1983, whereas, the 1986 yield was the lowest level since 1957. Utilized production was up 3,400,000 pounds from last year, totaling 6,300,000 pounds in 1987. The average price received by growers decreased 1.3 cents from last year to 68.4 cents per pound.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1978	800	6,030	4,824	64.1
1979	790	5,990	4,792	54.8
1980	800	6,380	5,100	54.7
1981	800	5,750	4,600	60.5
1982	900	6,800	6,120	70.0
1983	900	8,000	7,200	64.4
1984	800	6,000	4,800	49.8
1985	800	6,875	5,500	62.9
1986	800	3,625	2,900	69.7
1987	900	7,000	6,300	68.4

Blueberries by County, 1986

County	Acreage Harvested	Production
	Acres	1,000 Lbs.
King	100	300
Pierce	120	310
Snohomish	40	110
Thurston	100	550
Other Counties	440	1,630
State Total	800	2,900

Blueberries by County, 1987

County	Acreage Harvested	Production
	Acres	1,000 Lbs.
King	90	460
Lewis	160	940
Pierce	120	720
Snohomish	50	230
Thurston	120	820
Whatcom	330	2,940
Other Counties	30	190
State Total	900	6,300

CRANBERRIES

An early spring contributed to early cranberry bloom set. Some damage was reported because of late frosts, but warm sunny weather during the remainder of the growing season promoted good sizing and resulted in a lower incidence of fungus problems. Crop conditions in general were very good.

Cranberry acreage in 1987 was at the same level as 1986 at 1,200 acres. The 1987 average yield at 10,830 pounds was the highest since 1985, and was 30 percent higher than last year. Production also rose from the 1986 level to 13 million pounds in 1987, the second highest production level since 1979.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1978	1,100	12,640	13,900	21.7
1979	1,100	13,360	14,700	26.7
1980	1,100	9,450	10,400	33.1
1981	1,100	11,730	12,900	41.7
1982	1,100	8,360	9,200	47.1
1983	1,100	11,360	12,500	52.5
1984	1,100	9,360	10,300	55.4
1985	1,200	12,330	14,800	55.5
1986	1,200	8,330	10,000	53.1
1987	1,200	10,830	13,000	53.1

CULTIVATED BLACKBERRIES

Favorable weather helped blackberry crops overcome winter damage suffered in 1985. Yields in 1987 were higher than normal and berry quality was excellent. In 1987, acreage remained the same, as in 1986, but production increased because of higher yields. Greater blackberry supplies caused 1987 prices to fall below 1986 levels.

Washington's cultivated blackberry production in 1987 was 810,000 pounds, up 42 percent from last year. Average yield was 5,400 pounds per acre, 1,600 pounds per acre more than 1986. This was the highest yield recorded since 1977. Blackberry acreages in 1987 was 150 acres, same as in 1986. The average price growers received for blackberries in 1987 was 40.1 cents per pounds, down 11 cents from the previous year.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1978	200	5,300	1,060	49.1
1979	200	2,540	508	55.2
1980	240	3,500	840	15.8
1981	220	3,750	825	22.5
1982	160	3,800	608	27.8
1983	160	4,250	680	30.0
1984	160	5,000	800	44.5
1985	150	4,700	705	53.2
1986	150	3,800	570	51.1
1987	150	5,400	810	40.1

LIVESTOCK AND POULTRY

General Information

The Washington State Department of Agriculture celebrated its 75th birthday while the National Agricultural Statistics Service marks its 125th anniversary of collecting and publishing its first official livestock report. Since that time, agricultural data and general farm information have informed both buyers and sellers, helping to keep agricultural markets stable and efficient, and helping to maintain a "level playing field" for all.

Washington farm operators and agricultural service firms form the backbone of this system by voluntarily reporting the data needed to compile the many reports. To these people, we all owe a special debt of gratitude.

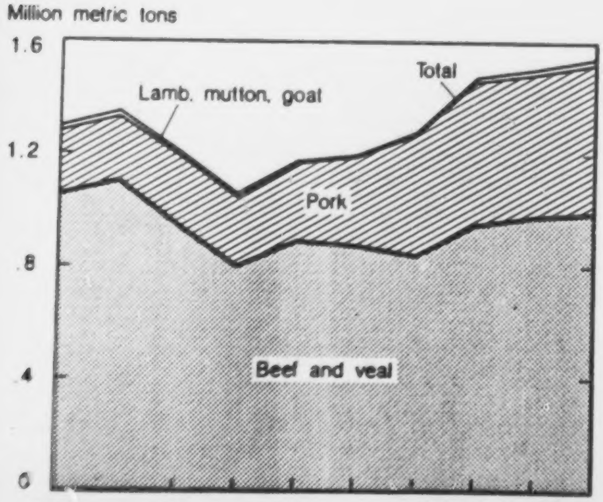
A little history to the livestock industry in Washington should remind us that the first cattle, hogs, sheep, and poultry were brought west by the pioneers at the time when the U.S. Department of Agriculture was initiating its first livestock reports.

The Washington Agricultural Statistics Service has made many adjustments in survey techniques and estimating procedures to keep abreast of changes in agriculture and to satisfy increased data needs, especially in the livestock industry. For years, surveys consisted of questionnaires mailed to informed livestock producers, asking about livestock inventories, marketings, and death losses. Today, scientific probability surveys are used to select a sample of producers to be asked specific questions about livestock on their farms and ranches.

Basic requirements for livestock probability surveys are a suitable sampling frame, which includes all livestock producers and a means of selecting a sample from this frame with known probabilities. Probability sample surveys and estimating procedures have the property of being unbiased and can provide measures of precision and reliability to the resulting survey estimate. Many questionnaires are still mailed, but, farm operators not responding by mail are phoned or personally interviewed so that the total sample selected is accounted.

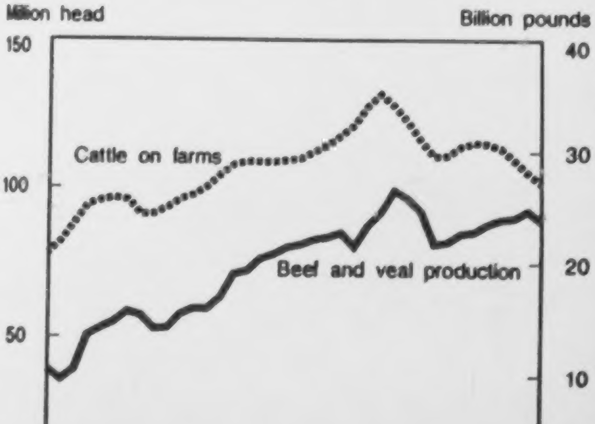
We hope the livestock and poultry statistics in the following sections will be useful and answer many questions about Washington agriculture.

U.S. Imports of Red Meat



1987 estimated. Carcass-weight equivalent.

Cattle Numbers and Beef Production



1987 production forecast. Cattle and calves on farms January 1.

Value of Production, Washington

Commodity	1983	1984	1985	1986	1987
			$1,000		
All Cattle	317,284	339,578	287,784	294,337	325,594
Milk	476,019	466,845	478,471	468,980	474,991
All Hogs and Pigs	9,660	8,992	7,223	7,227	9,268
All Sheep and Lambs	2,143	2,183	3,200	3,376	3,738
Wool	287	407	279	320	482
Chickens, Broilers	29,766	35,805	32,890	35,015	34,951
Chickens, Layers	1,090	1,071	1,170	1,034	1,094
Eggs	58,110	67,803	55,103	55,577	48,211
Mink	5,504	6,928	7,910	8,085	11,325
Honey	N/A	N/A	N/A	1,728	1,815
Minor Livestock and Poultry	8,571	9,911	11,121	10,635	12,784
Total	908,434	939,523	885,151	886,314	924,253

Inventory and Value, January 1

Species and Year	Washington			United States		
	Inventory	Value		Inventory	Value	
		Per Head	Total		Per Head	Total
	1,000	Dollars	1,000 Dollars	1,000	Dollars	1,000 Dollars
All Cattle and Calves						
1984	1,560	465.00	725,400	113,700	396.00	44,975,575
1985	1,470	475.00	698,250	109,749	402.00	44,138,618
1986	1,460	440.00	642,400	105,468	391.00	41,279,749
1987	1,300	485.00	630,500	102,000	407.00	41,482,765
1988	1,290	610.00	786,900	98,994	523.00	51,807,580
All Hogs and Pigs 1/						
1984	53	87.50	4,638	56,694	58.80	3,330,803
1985	45	75.50	3,398	54,043	75.00	4,055,724
1986	51	77.00	3,927	52,313	69.60	3,640,368
1987	50	111.00	5,550	50,920	91.90	4,679,398
1988	55	84.00	4,620	53,795	76.20	4,096,647
All Sheep and Lambs						
1984	62	59.00	3,658	11,487	52.10	598,904
1985	53	62.00	3,286	10,443	61.10	637,873
1986	58	68.00	3,944	9,983	67.40	673,048
1987	59	75.50	4,455	10,334	75.70	782,108
1988	72	78.50	5,652	10,774	89.90	968,918
All Chickens 1/ 2/						
1984	6,132	1.70	10,424	364,880	1.96	716,700
1985	6,130	1.45	8,889	374,008	2.02	754,312
1986	6,624	1.85	12,254	368,548	1.90	700,150
1987	5,700	1.60	9,120	369,131	1.87	690,818
1988	6,005	1.60	9,608	377,516	1.87	706,079
Total Value --						
All Species 2/						
1984			744,120			49,621,982
1985			713,823			49,586,527
1986			662,525			46,293,315
1987			649,625			47,635,089
1988			806,780			57,579,224

1/ December 1 of previous year.
2/ Excludes broilers.

CATTLE AND CALVES

One hundred and twenty five years ago, when the U.S. Department of Agriculture was introducing cattle estimates, virtually every farm had at least one dairy or beef cow for home use. Now only fifty-nine percent of all farms in Washington have cattle and most have become specialized in raising livestock as a commercial enterprise. Most of the beef cattle are located east of the Cascade Range, while most dairy cows are situated in western Washington taking advantage of the lush, green pastures.

The value of production for all cattle and calves moved up to third place among the principal agricultural commodities produced in Washington during 1987. The value of production, at $325.6 million, rose 20 percent over the previous year, as a result of the price increase received by the stockmen. The cattle price increased $7.80 per cwt. to $61.00 per cwt., while the calf price rose $23.10 to $76.00 per cwt. The record calf price was set in 1979 when the price soared to $78.60 per cwt. before bottoming out last year at $52.90 in the current price cycle.

Inventory on Farms by Class, January 1

Class	1984	1985	1986	1987	1988
	1,000 Head				
Cows and Heifers that have Calved:					
Beef Cows	436	398	407	399	359
Milk Cows	214	211	223	201	211
Total	650	609	630	600	570
Heifers, 500 pounds and over:					
For Beef Cow Replacement	70	88	73	75	72
For Milk Cow Replacement	95	132	115	80	80
Other Heifers	125	102	112	103	133
Total	290	322	300	258	285
Steers, 500 pounds and over	285	249	236	209	233
Bulls, 500 pounds and over	32	27	28	23	22
Calves, less than 500 pounds	303	263	266	210	180
All Cattle and Calves	1,560	1,470	1,460	1,300	1,290
Number of Cattle Operations 1/	24,000	23,000	23,000	22,000	2/

1/ Any place having one or more head on hand at any time during the year.
2/ Available February 11, 1989.

Balance Sheet

Year	Inventory January 1	Calf Crop	Inshipments	Marketings 1/		Farm Slaughter 2/	Deaths		Inventory Following January 1
				Cattle	Calves		Cattle	Calves	
	1,000 Head								
1983	1,505	560	168	462	94	40	27	50	1,560
1984	1,560	550	200	595	130	38	30	47	1,470
1985	1,470	550	173	511	99	38	30	55	1,460
1986	1,460	540	167	635	117	37	28	50	1,300
1987	1,300	525	213	545	100	33	25	45	1,290

1/ Excludes interfarm sales within the State.
2/ Excludes custom slaughter for farmers at commercial establishments.

Production and Income

Year	Production 1/	Marketings 2/	Average Price Per Cwt.		Value of			
			Cattle	Calves	Production	Cash Receipts	Home Consumption	Gross Income
	1,000 Pounds		Dollars		1,000 Dollars			
1983	525,810	547,370	60.60	55.20	317,284	330,515	26,360	356,875
1984	552,300	708,470	61.70	55.10	339,578	435,131	25,953	461,084
1985	524,720	607,670	54.90	53.70	287,784	333,374	25,740	359,114
1986	553,260	737,980	53.20	52.90	294,337	392,552	24,437	416,989
1987	532,580	633,250	61.00	76.00	352,594	388,458	24,700	413,158

1/ Adjustments made for changes in inventory and for inshipments.

2/ Excludes custom slaughter for use on farms where produced and interfarm sales within the State.

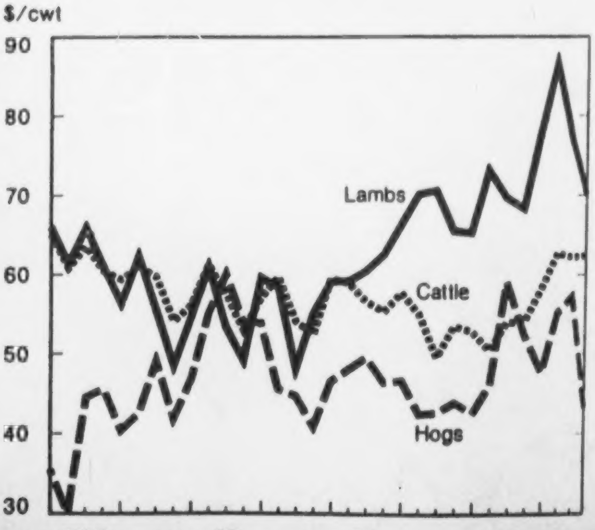
Commercial Cattle Slaughter

Year and Month	Washington			United States		
	Head	Liveweight		Head	Liveweight	
		Per Head	Total		Per Head	Total
	1,000	Pounds	1,000 Pounds	1,000	Pounds	1,000 Pounds
1987 January	72.2	1,157	83,577	3,201.0	1,109	3,548,615
February	65.0	1,164	75,704	2,659.4	1,108	2,946,536
March	71.5	1,152	82,337	2,904.4	1,107	3,215,469
April	67.4	1,127	76,004	2,971.1	1,094	3,249,945
May	66.7	1,120	74,772	2,871.9	1,087	3,121,826
June	76.0	1,128	85,666	3,035.0	1,086	3,295,898
July	68.4	1,141	78,041	3,099.0	1,093	3,385,955
August	69.6	1,154	80,321	3,055.9	1,100	3,362,537
September	74.1	1,159	85,901	3,068.2	1,114	3,418,761
October	79.7	1,177	93,803	3,131.4	1,118	3,501,563
November	60.8	1,179	71,697	2,750.9	1,121	3,083,252
December	78.4	1,176	92,154	2,898.7	1,123	3,256,450
1983...............	931.6	1,153	1,073,891	36,648.9	1,071	39,247,590
1984...............	991.8	1,149	1,139,337	37,582.7	1,067	40,084,665
1985...............	936.6	1,169	1,095,063	36,292.7	1,098	39,841,063
1986...............	928.2	1,144	1,061,971	37,288.3	1,100	41,031,617
1987...............	849.8	1,153	979,978	35,646.9	1,105	39,386,808

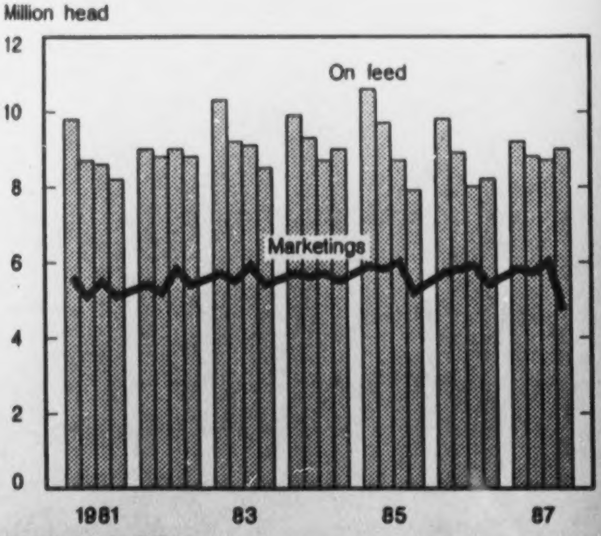
Cattle on Feed, Placements, and Marketings

Year/ Quarter	Cattle & Calves on Feed				Previous Quarter		
	Total All	Steers	Heifers	Cows & Others	Placements	Market-ings	Other Disap-pearance
				1,000 Head			
1983							
Jan.	167	125	42	0	119	112	5
Apr.	150	108	42	0	103	115	2
Jul.	173	121	52	0	129	104	1
Oct.	162	122	40	0	106	116	5
1984							
Jan.	183	134	49	0	140	114	5
Apr.	188	133	51	4	126	116	1
Jul.	185	128	54	3	122	124	1
Oct.	221	150	71	0	170	133	2
1985							
Jan.	203	146	57	0	124	140	2
Apr.	158	104	54	0	131	171	5
Jul.	154	98	53	3	111	109	6
Oct.	204	135	69	0	150	98	2
1986							
Jan.	198	125	73	0	115	118	3
Apr.	161	96	65	0	108	143	2
Jul.	144	86	57	1	108	122	3
Oct.	166	102	64	0	99	75	2
1987							
Jan.	138	94	44	0	91	116	3
Apr.	138	87	51	0	98	96	2
Jul.	151	99	52	0	102	87	2
Oct.	197	120	77	0	157	109	2
1988							
Jan.	198	117	80	1	127	124	2
Apr.	172	106	66	0	107	129	4
Jul.	170	107	63	0	110	111	1

Livestock Prices Received by Farmers, U.S.



Cattle on Feed and Marketings

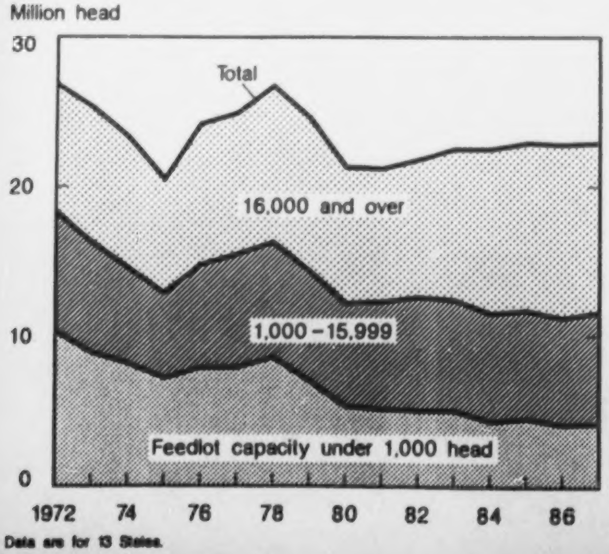


Quarterly data for 13 States.

Cattle on Feed by Weight Groups

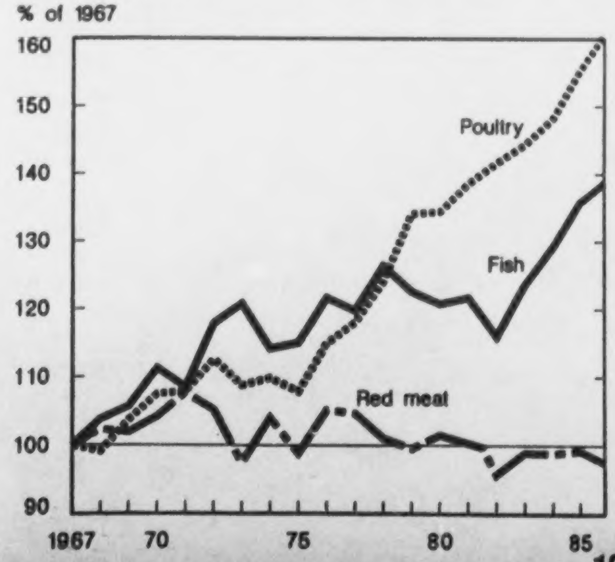
Year/ Quarter	Steers and Steer Calves					Heifers and Heifer Calves			
	Under 500 Lbs	500-699 Lbs	700-899 Lbs	900-1,099 Lbs	1,100+ Lbs	Under 500 Lbs	500-699 Lbs	700-899 Lbs	900+ Lbs
	1,000 Head								
1983									
Jan.	1	6	29	54	35	1	6	19	16
Apr.	0	1	30	51	26	1	6	17	18
Jul.	1	1	40	66	13	1	4	21	26
Oct.	0	1	36	55	30	0	3	21	16
1984									
Jan.	0	7	39	49	39	0	4	23	22
Apr.	0	3	46	56	28	0	6	26	19
Jul.	0	1	41	40	46	0	8	21	25
Oct.	0	6	33	62	49	0	3	30	38
1985									
Jan.	0	2	21	74	49	0	2	22	33
Apr.	0	3	33	45	23	0	4	27	23
Jul.	0	5	44	33	16	2	4	25	22
Oct.	0	2	43	66	24	0	2	29	38
1986									
Jan.	0	5	25	59	36	0	6	22	45
Apr.	0	2	25	48	21	0	5	30	30
Jul.	0	3	21	43	19	0	2	20	35
Oct.	0	3	25	45	29	0	10	31	23
1987									
Jan.	0	13	32	37	12	0	7	23	14
Apr.	0	6	37	36	8	0	13	27	11
Jul.	0	3	32	53	11	0	4	30	18
Oct.	0	1	46	54	19	0	12	34	31
1988									
Jan.	0	8	38	56	15	0	7	35	38
Apr.	0	5	39	43	19	0	7	32	27
Jul.	0	4	24	44	35	0	4	23	36

Fed Cattle Marketed by Feedlot Capacity



Data are for 13 States.

Per Capita Consumption of Meat, Poultry, and Fish, U.S.



DAIRY

General Information

Milk and dairy products have been an important part of the Washington economy since its settlement in the early eighteen hundreds. At that time, very little milk was sold off the farm where it was produced. Transportation was difficult and the formation of organized markets was slow. Every settler was as self-sufficient as possible. At an early date, some farmers sought cash markets for surplus cheese production. Less perishable than fluid milk or butter, cheese could be produced during periods of lush grass when milk production was high, stored in cool cellars, and readily transported to markets distant from the farm. The Hudson's Bay Company farms at Vancouver and Cowlitz prairie exported cheese to Alaska. Homesteaders in southwest Washington also soon found cheese making a profitable enterprise.

Milk production and the manufacture of dairy products has continued to expand in Washington State. In 1987, the value of receipts for milk production were higher than the value of any other agricultural commodity produced in the State. The milk industry also enjoyed the top spot for value of production in 1985, and has been second eight out of the last ten years. Nationally, Washington ranks 4th in butter production and is also recognized for the production of quality cheese, ice cream, and other dairy products.

Milk Production, Utilization, Marketing, and Value

Production and Use	Unit	1983	1984	1985	1986	1987
Production And Utilization						
Production of milk:						
Total milk produced on farms	Mil. Lbs.	3,482	3,468	3,750	3,762	3,763
Milkfat produced	Mil. Lbs.	127	127	140	139	139
Percentage of milkfat	Percent	3.65	3.66	3.73	3.70	3.69
Utilization:						
Milk Marketed by Producers:						
Sold to plants and dealers as whole milk 1/	Mil. Lbs.	3,320	3,299	3,582	3,582	3,570
Sold directly to consumers	Mil. Lbs.	135	142	149	155	172
Milk used where produced						
Fed to calves	Mil. Lbs.	23	23	16	21	17
Used by farm household	Mil. Lbs.	4	4	3	4	4
Marketings						
Milk Marketed by Producers:						
Sold to plants and dealers						
Whole milk sold 1/	Mil. Lbs.	3,320	3,299	3,582	3,582	3,570
Price per Cwt.	Dollars	13.30	13.10	12.40	12.10	12.20
Cash receipts	1,000 Dol.	441,560	432,169	444,168	433,422	435,540
Sold Directly to Consumers						
Quantity	1,000 Qts.	62,791	66,047	69,302	72,093	80,000
Price per quart	Cents	49	47	46	45	46
Cash receipts	1,000 Dol.	30,767	31,042	31,879	32,442	36,800
Total Marketing						
Milk Utilized	Mil. Lbs.	3,455	3,441	3,731	3,737	3,742
Price Per Cwt. of milk	Dollars	13.67	13.46	12.76	12.47	12.62
Price per pound milkfat	Dollars	3.75	3.68	3.42	3.37	3.42
Total cash receipts	1,000 Dol.	472,326	463,211	476,047	465,864	472,340
Farm Use						
Value of milk used where produced 2/	1,000 Dol.	3,692	3,634	2,424	3,116	2,651
Total Value of Milk Produced	1,000 Dol.	476,019	466,845	478,471	468,980	474,991
Number of operations with milk cows	Number	3,600	3,600	3,400	3,200	3,000

1/ Includes the equivalent amounts of milk for cream sold to plants and dealers.
2/ Includes value of milk fed to calves and milk used by farm household.

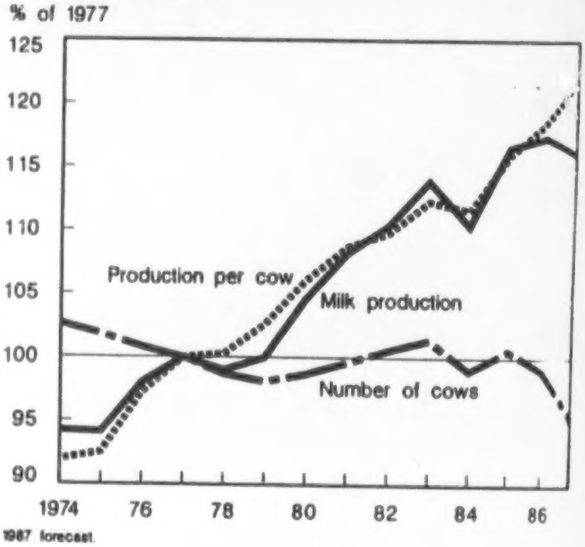
MILK COWS AND MILK PRODUCTION

Even before Washington achieved statehood, the milk cow was very important to the people who lived here. According to the 1870 Census, there were 1,621 milk cows in Yakima County, but only 432 people. Milk cows also out-numbered people in Clallam, Whatcom, Klickitat, and Chehalis Counties during that Census period. Farm families depended on milk cows for food and cash income. Milk cows and milk production today are as important to the State's economy as they were in 1870. In 1987, milk was the number one farm commodity in Washington based on the value of production. Although the growth of the dairy industry has been considerable over the last 100 years, the most impressive fact is the increase in efficiency which dairy farmers have achieved. In 1937, there were 313 thousand milk cows in Washington State producing 1,887 million pounds of milk for an average of 6,030 pounds per cow. In 1987, there were 208 thousand milk cows, 105 thousand fewer than fifty years earlier, but they produced 3,763 million pounds of milk. Milk per cow, at 18,091 pounds in 1987, increased 300 percent from 1937. Washington has led the Nation in milk per cow for the last five years.

Milk Cows on Farms

Month	1983	1984	1985	1986	1987
	1,000 Head				
January	213	213	211	223	205
February	213	213	213	223	206
March	215	213	216	223	207
April	217	213	219	219	207
May	218	213	222	217	209
June	217	211	225	214	212
July	218	212	228	213	209
August	217	213	229	209	203
September	215	213	227	203	206
October	215	212	225	200	207
November	215	211	224	199	209
December	214	211	223	201	211
Average	216	212	222	212	208

Milk Production, Number of Cows, and Milk per Cow, U.S.



Milk Production per Cow

Month	1983	1984	1985	1986	1987
	Pounds				
January	1,300	1,330	1,380	1,440	1,485
February	1,200	1,250	1,250	1,320	1,355
March	1,350	1,350	1,410	1,485	1,515
April	1,340	1,350	1,415	1,490	1,515
May	1,420	1,430	1,495	1,550	1,585
June	1,390	1,400	1,435	1,510	1,555
July	1,430	1,450	1,470	1,550	1,575
August	1,410	1,420	1,460	1,530	1,550
September	1,340	1,340	1,390	1,475	1,520
October	1,350	1,360	1,425	1,500	1,515
November	1,280	1,300	1,355	1,440	1,450
December	1,330	1,360	1,405	1,470	1,500
Annual	16,120	16,358	16,892	17,745	18,091

Total Milk Production

1983	1984	1985	1986	1987
Million Pounds				
277	283	291	321	304
256	266	266	294	279
290	288	305	331	314
291	288	310	326	314
310	305	332	336	331
302	295	323	323	330
312	307	335	330	329
306	302	334	320	315
288	285	316	299	313
290	288	321	300	314
275	274	304	287	303
285	287	313	295	317
3,482	3,468	3,750	3,762	3,763

DAIRY PRODUCTS

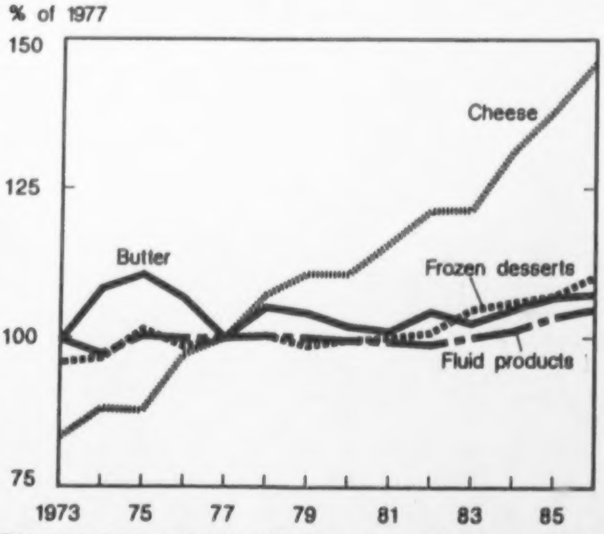
The date when commercial creameries were functioning in Washington is not definitely established. It is believed that the first was Martin and Hubbard at Cheney in 1880. There were two butter and cheese factories operating in Washington that year according to the Census. They grossed $16,647 and employed eight people. Today, there are 26 plants in Washington that produce one or more dairy products. These plants employ hundreds of workers and are invaluable to the State's dairy farmers.

Washington was ranked fourth nationally in butter production and 14th in total cheese production (excluding cottage cheese). Washington creameries also produce cottage cheese, sour cream, yogurt, ice cream, sherbet, dry milk, and whey.

Butter Production / Ice Cream Production

	Butter Production					Ice Cream Production				
Month	1983	1984	1985	1986	1987	1983	1984	1985	1986	1987
	1,000 Pounds					1,000 Gallons				
January	5,891	6,177	6,756	8,503	7,110	1,169	1,085	1,362	1,218	1,270
February	5,230	6,329	6,013	7,361	6,206	1,025	1,147	1,203	1,353	1,343
March	5,415	5,497	6,719	7,866	6,900	1,412	1,469	1,529	1,490	1,592
April	5,185	6,337	7,022	7,837	7,082	1,439	1,479	1,449	1,569	1,653
May	5,553	6,293	7,041	8,395	7,385	1,418	1,627	1,692	1,580	1,759
June	5,305	5,916	7,010	7,173	7,341	1,666	1,753	1,868	1,920	1,824
July	5,606	5,814	6,752	7,387	7,241	1,760	1,842	2,041	1,665	1,870
August	5,246	6,193	7,372	6,445	6,651	1,538	1,658	1,545	1,721	1,948
September	4,743	5,498	7,272	6,302	5,828	1,418	1,382	1,343	1,577	1,501
October	5,383	5,667	7,664	6,674	6,184	1,257	1,399	1,374	1,438	1,308
November	5,635	5,563	7,076	5,367	5,985	1,076	1,336	1,309	1,696	1,316
December	5,503	5,608	7,799	6,757	8,041	1,046	1,323	1,438	1,330	1,268
Annual	64,695	70,892	84,496	86,067	81,954	16,224	17,500	18,153	18,557	18,652

Dairy Product Sales, U.S.



Fluid products include cream and specialty items. Cheese excludes cottage cheese.

Ice Milk Production

Month	1983	1984	1985	1986	1987
	1,000 Gallons				
Jan.	886	771	587	447	470
Feb.	514	531	478	457	526
Mar.	675	609	591	615	710
Apr.	730	665	682	662	700
May	783	660	822	747	919
Jun.	861	621	787	767	835
Jul.	828	783	915	763	1,014
Aug.	788	824	830	765	872
Sep.	775	646	657	648	862
Oct.	603	551	552	600	820
Nov.	473	576	414	500	620
Dec.	599	567	500	526	671
Annual	8,515	7,804	7,815	7,497	9,019

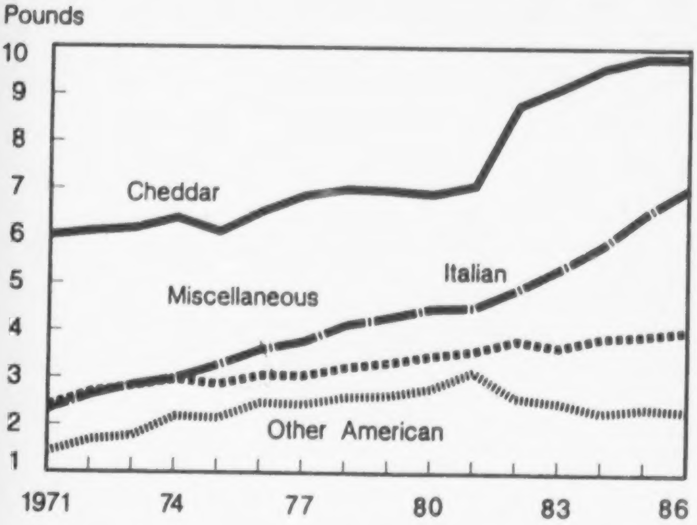
AMERICAN CHEESE PRODUCTION

Month	1983	1984	1985	1986	1987
	1,000 Pounds				
January	2,985	3,113	2,615	2,768	2,515
February	2,663	2,829	2,136	2,564	2,157
March	3,366	2,331	2,763	2,102	2,370
April	3,915	2,496	1,540	2,822	2,410
May	4,303	2,962	1,732	2,917	2,467
June	4,171	2,947	1,750	3,130	2,693
July	4,254	3,428	3,569	3,260	2,901
August	4,052	2,417	3,097	3,133	2,525
September	3,728	1,422	2,790	2,732	3,192
October	3,715	1,426	3,089	2,869	3,594
November	2,654	1,216	2,856	2,421	2,689
December	2,415	1,500	2,815	2,847	2,665
Annual	42,221	28,087	30,752	33,565	32,178

ITALIAN CHEESE PRODUCTION

	1983	1984	1985	1986	1987
	1,000 Pounds				
January	1,344	1,505	1,398	1,756	2,067
February	1,331	1,438	1,506	1,585	1,821
March	1,543	1,722	1,669	1,969	2,256
April	1,405	1,598	1,803	1,878	1,893
May	1,536	1,629	1,827	1,900	1,789
June	1,453	1,667	1,828	1,905	2,290
July	1,280	1,482	1,871	1,931	2,332
August	1,521	1,463	1,832	2,010	2,149
September	1,567	1,509	1,675	1,922	2,334
October	1,659	1,664	1,829	2,129	2,306
November	1,617	1,784	1,605	2,091	2,008
December	1,534	1,657	1,871	2,193	2,051
Annual	17,790	19,118	20,714	23,269	25,296

Per Capita Cheese Consumption, U.S.



Total Cheese Production

Month	1983	1984	1985 1/	1986 1/	1987 1/
	1,000 Pounds				
Jan.	4,329	4,618	4,046	4,545	4,600
Feb.	3,994	4,267	3,661	4,168	4,026
Mar.	4,909	4,053	4,466	4,087	4,674
Apr.	5,320	4,094	3,358	4,733	4,333
May	5,839	4,591	3,574	4,841	4,271
Jun.	5,624	4,614	3,600	5,049	5,000
Jul.	5,534	4,910	5,505	5,216	5,252
Aug.	5,573	3,880	4,996	5,166	4,709
Sep.	5,295	2,931	4,513	4,704	5,548
Oct.	5,374	3,090	4,943	5,029	5,931
Nov.	4,271	3,000	4,486	4,555	4,738
Dec.	3,949	3,157	4,703	5,082	4,797
Annual	60,011	47,205	51,851	57,175	57,879

1/ Includes Gouda and Feta cheeses.

Creamed Cottage Cheese Production

Month	1983	1984	1985	1986	1987
	1,000 Pounds				
Jan.	2,282	1,961	2,114	1,962	2,063
Feb.	1,087	2,101	1,998	1,692	1,931
Mar.	2,523	2,074	2,064	1,841	2,115
Apr.	2,411	2,045	2,118	1,890	2,023
May	2,318	2,255	2,301	2,089	2,085
Jun.	2,257	2,026	2,138	1,889	2,047
Jul.	2,188	2,047	2,187	1,956	2,106
Aug.	2,134	2,184	2,075	1,797	1,897
Sep.	2,062	1,844	1,914	1,983	1,781
Oct.	2,019	2,050	2,115	2,039	1,898
Nov.	1,945	1,986	1,841	1,751	1,719
Dec.	2,005	1,787	1,807	1,750	1,821
Annual	25,231	24,360	24,672	22,639	23,486

Cottage Cheese Curd Production

Month	1983	1984	1985	1986	1987
	1,000 Pounds				
Jan.	1,716	1,484	1,762	1,673	1,633
Feb.	1,617	1,578	1,556	1,496	1,601
Mar.	1,839	1,653	1,750	1,668	1,713
Apr.	1,738	1,623	1,695	1,693	1,718
May	1,743	1,673	1,861	1,763	1,764
Jun.	1,762	1,491	1,672	1,666	1,706
Jul.	1,660	1,612	1,731	1,723	1,776
Aug.	1,568	1,725	1,641	1,595	1,643
Sep.	1,548	1,477	1,489	1,603	1,629
Oct.	1,529	1,621	1,710	1,575	1,602
Nov.	1,504	1,578	1,483	1,458	1,474
Dec.	1,522	1,420	1,423	1,419	1,530
Annual	19,746	18,935	19,773	19,332	19,789

HOGS

Washington's 3,200 hog farmers marketed 73,000 head of hogs in 1987. This is a 19.6 percent increase over the 1986 marketings. Value of production for hogs in 1987 enjoyed a healthy rebound to $9.27 million, up 28 percent as both the numbers marketed and prices increased over the 1986 levels. Prices averaged $50.00 per cwt. the highest since 1982.

The inventory of all hogs on Washington farms on December 1, 1987, was estimated at 55,000 head, a 10 percent increase from the previous year's level. Breeding stock comprised 11 percent of the inventory while market hogs destined for slaughter made up the remaining 89 percent of the inventory.

Washington sows averaged 7.6 pigs per litter during 1987, producing a total of 91,000 head. Larger litter sizes were reported for the six month period of June through November when they averaged 8.2 pigs per litter.

Inventory on Farms by Class, December 1

Class	1983	1984	1985	1986	1987
			1,000 Head		
Hogs					
Breeding Hogs	6	5	6	9	6
Market Hogs	47	40	45	41	49
All Hogs	53	45	51	50	55
Number of Hog Operations 1/	3,600	3,600	3,300	3,300	3,200

1/ Any place having one or more head on hand at any time during the year.

Pig Crop

Year	December-May			June-November		
	Sow Farrowed	Pigs Per Litter	Pig Crop	Sows Farrowed	Pigs Per Litter	Pig Crop
	1,000 Head	Head	1,000 Head	1,000 Head	Head	1,000 Head
1983	6.0	7.0	42	5.5	8.2	45
1984	6.0	8.3	50	4.4	8.3	37
1985	5.0	7.5	38	5.0	8.0	40
1986	4.0	7.7	31	5.0	7.8	39
1987	6.0	7.0	42	6.0	8.2	49

Balance Sheet

Year	Beginning Inventory Prev. Yr.	Pigs Saved		Inshipment	Marketings 1/	Farm Slaughter 2/	Deaths	Inventory December 1
		Dec.- May	Jun.- Nov.					
	1,000 Head							
1983	51	42	45	0	74	6	5	53
1984	53	50	37	0	80	7	8	45
1985	45	38	40	0	56	11	5	51
1986	51	31	39	0	61	4	6	50
1987	50	42	49	0	73	6	7	55

1/ Excludes interfarm sales within the State.
2/ Excludes custom slaughter for farmers at commercial establishments.

Production and Income

Year	Production 1/	Marketings 2/	Average Price Per Cwt.	Value of			
				Production	Cash Receipts	Home Consumption	Gross Income
	1,000 Pounds		Dollars	1,000 Dollars			
1983	19,555	16,487	49.40	9,660	8,145	1,083	9,228
1984	18,578	18,514	48.40	8,992	8,961	867	9,828
1985	16,605	12,756	43.50	7,223	5,549	1,224	6,773
1986	15,058	11,265	48.00	7,227	5,407	1,886	7,293
1987	18,536	13,246	50.00	9,268	6,623	2,599	9,222

1/ Adjustments made for changes in inventory and for inshipments.
2/ Excludes custom slaughter for use on farms where produced and interfarm sales within the State.

Commercial Slaughter

Year and Month	Washington			United States		
	Head	Liveweight		Head	Liveweight	
		Per Head	Total		Per Head	Total
	1,000	Pounds	1,000 Pounds	1,000	Pounds	1,000 Pounds
1987 January	2.3	229	521	6,917.8	251	1,732,811
February	2.0	233	463	6,054.7	248	1,499,234
March	2.1	233	489	6,967.1	246	1,710,743
April	2.2	230	506	6,667.2	246	1,641,258
May	1.5	231	350	6,083.7	247	1,500,090
June	1.2	230	286	6,160.5	248	1,525,108
July	1.3	223	289	6,188.5	245	1,518,843
August	1.3	229	302	6,179.9	244	1,507,852
September	1.4	230	326	7,027.4	246	1,726,193
October	1.3	234	294	7,700.3	248	1,910,291
November	1.2	236	293	7,320.7	251	1,840,589
December	1.3	232	310	7,813.1	249	1,947,434
1983	338.1	234	79,008	87,584.3	243	21,284,616
1984	95.7	234	22,336	85,168.1	243	20,727,868
1985	39.3	235	9,247	84,491.9	245	20,666,685
1986	29.5	240	7,088	79,598.2	246	19,564,663
1987	19.2	231	4,429	81,080.8	247	20,060,447

SHEEPS AND LAMBS

The sheep and lamb numbers were up 22 percent in Washington totaling 72,000 head in 1987. This is the third consecutive year sheep numbers have increased from the record low of 53,000 head in 1985. However, sheep numbers remained far below the 300,000 plus head raised in the early 1960's. Lamb prices have responded to the strong demand as the 1987 average price was a record high $74.40 per hundred-weight.

Wool production during 1987 was 626,000 pounds, up 17 percent from 1986. This is the highest wool production in the last four years. The wool was shorn from 70,000 head of sheep and lambs having an average fleece weight of 8.9 pounds. Fleeces were eight tenths of a pound heavier than the previous year. Total value of shorn wool at $482 thousand, indicates a sharp increase due to a combination of higher wool prices and production.

INVENTORY ON FARMS BY CLASS, JANUARY 1

Class	1984	1985	1986	1987	1988
			1,000 Head		
Sheep and Lambs					
Ewe Lambs	9.0	7.0	9.0	9.5	12.0
Wether and Ram Lambs	5.0	3.0	3.0	3.5	4.0
Ewes, 1 year plus	45.0	41.0	44.0	44.0	54.0
Rams and Wethers, 1 year plus	3.0	2.0	2.0	2.0	2.0
All Sheep and Lambs	62.0	53.0	58.0	59.0	72.0
Number of Sheep Operations 1/	2,400	2,200	2,200	2,200	2/

1/ Any place having one or more head on hand at any time during the year.
2/ Available January 29, 1989.

BALANCE SHEET

Year	Inventory January 1	Lamb Crop	Inshipments	Marketings 1/		Farm Slaughter 2/	Deaths		Inventory Following January 1
				Sheep	Lambs		Sheep	Lambs	
				1,000 Head					
1983	65	58	3	10	39	3	6	6	62
1984	62	50	2	15	36	3	3	4	53
1985	53	55	2	3	39	3	3	4	58
1986	58	58	7	7	45	4	4	4	59
1987	59	63	10	5	44	1	4	6	72

1/ Excludes interfarm sales within the State.
2/ Excludes custom slaughter for farmers at commercial establishments.

Production and Income

Year	Production 1/	Marketings 2/	Average Price Per Cwt.		Value of			
			Sheep	Lambs	Production	Cash Receipts	Home Consumption	Gross Income
	1,000 Pounds		Dollars		1,000 Dollars			
1983	5,195	5,380	11.30	49.50	2,143	2,238	174	2,412
1984	4,670	5,672	12.90	56.40	2,183	2,455	178	2,633
1985	5,515	4,571	15.20	66.70	3,200	2,893	232	3,125
1986	5,871	5,713	14.90	65.60	3,376	3,371	396	3,767
1987	6,467	5,459	24.00	74.40	3,738	3,769	111	3,880

1/ Adjustments made for changes in inventory and for inshipments.

2/ Excludes custom slaughter for use on farms where produced and interfarm sales within the State.

COMMERCIAL SLAUGHTER

Year and Month	Washington			United States		
	Head	Liveweight		Head	Liveweight	
		Per Head	Total		Per Head	Total
	1,000	Pounds	1,000 Pounds	1,000	Pounds	1,000 Pounds
1987 January	10.6	124	1,311	428.1	118	50,510
February	10.6	123	1,302	399.6	119	47,452
March	11.3	118	1,333	442.6	122	53,790
April	13.7	113	1,552	496.4	116	57,595
May	10.4	119	1,242	373.5	117	43,603
June	13.7	110	1,507	420.3	115	48,461
July	14.3	116	1,656	426.0	118	50,074
August	14.6	110	1,608	415.9	118	48,860
September	17.4	123	2,137	474.4	120	56,796
October	14.9	119	1,784	460.2	122	56,081
November	12.5	123	1,542	411.6	122	50,011
December	12.6	121	1,522	451.0	123	55,438
1983...............	162.2	110	17,874	6,619.4	112	741,155
1984...............	165.7	112	18,643	6,759.0	111	749,559
1985...............	158.0	116	18,272	6,165.2	114	702,448
1986...............	155.4	119	18,524	5,635.0	117	659,893
1987...............	156.7	118	18,498	5,199.6	119	618,670

WOOL PRODUCTION AND INCOME

Year	Number Sheep Shorn	Weight Per Fleece	Wool Production	Price Per Pound	Value of Production
	1,000 Head	Pounds	1,000 Pounds	Cents	1,000 Dollars
1983	65	9.0	585	49	287
1984	64	8.6	550	74	407
1985	63	8.5	536	52	279
1986	66	8.1	533	60	320
1987	70	8.9	626	77	482

Poultry

The first domesticated chickens to reach the Pacific Northwest came with the fur traders in the early 1800's. Typically, most homesteaders cultivated a small garden, raised chickens, and kept a cow or two. The poultry products not only supported the home table, but provided cash income to clear additional land. Often, the principal means of livelihood lay elsewhere in logging, coal mining, or transportation, and any surplus from poultry products was incidental. Logging camps provided ready markets for eggs, milk, and garden crops.

By the turn of the century, many families who settled in western Washington had developed truly commercial poultry farms dependent on egg production as the principal source of income. Poultry estimates were started in Washington in 1925, 12 years after the birth of the Washington State Department of Agriculture. That first estimate indicated Washington poultry farmers produced 704,000 eggs compared with last year's production of 1,303,000,000 eggs. That means egg production has grown 1,851 percent in the past 62 years.

INVENTORY ON FARMS BY CLASS, DECEMBER 1

Class	1983	1984	1985	1986	1987
			1,000 Birds		
Hens and Pullets of Laying Age:					
Hens (1 year and older)	2,796	3,286	3,074	2,744	2,160
Pullets of laying age	2,373	2,274	2,190	2,357	2,899
Total	5,169	5,560	5,264	5,101	5,059
Pullets, 3 months plus	239	230	590	220	390
Pullets, less than 3 months	669	290	720	352	540
Other Chickens	55	50	50	27	16
All Chickens (excluding broilers)	6,132	6,130	6,624	5,700	6,005
Number of Chickens Operations 1/	6,200	6,200	6,200	2/	2/

1/ Any place having one or more head on hand at any time during the year.
2/ Estimate discontinued.

Average Number of Layers

Month 1/	1983	1984	1985	1986	1987
			1,000 Birds		
December	5,166	5,171	5,498	5,166	5,100
January	5,040	5,106	5,414	5,082	4,994
February	5,071	5,064	5,409	5,091	4,996
March	5,051	5,125	5,513	5,143	5,052
April	4,929	5,139	5,516	5,174	5,033
May	4,866	5,114	5,373	5,028	5,058
June	4,853	5,188	5,331	4,853	5,055
July	4,894	5,184	5,331	4,946	5,061
August	4,950	5,226	5,251	5,063	5,036
September	5,044	5,318	5,130	5,023	4,892
October	5,152	5,270	5,043	5,044	4,880
November	5,186	5,406	5,140	5,088	5,023
Annual Average	5,017	5,193	5,329	5,059	5,016
State Total	-	-	-	-	-

Egg Production

Month 1/	1983	1984	1985	1986	1987
			Million		
December	112	113	118	115	112
January	108	109	118	112	109
February	93	101	105	96	95
March	101	110	122	106	109
April	98	109	118	105	109
May	103	110	110	108	110
June	101	106	106	105	108
July	104	107	117	110	116
August	103	108	115	112	113
September	100	110	108	107	106
October	104	113	111	110	108
November	105	110	107	109	108
Annual Average	-	-	-	-	-
State Total	1,232	1,306	1,355	1,295	1,303

1/ December 1 previous year to November 30.
- Not applicable.

Chicken Production and Income 1/ 2/

Year	Number Sold	Pounds Sold	Price Per Pound	Value of Sales
	1,000 Birds	1,000 Pounds	Cents	1,000 Dollars
1983	4,800	15,678	7.0	1,113
1984	4,700	15,088	7.0	1,071
1985	3,000	11,700	10.0	1,170
1986	3,400	12,920	8.0	1,034
1987	3,600	13,680	8.0	1,094

Egg Production and Income 2/

Year	Eggs Produced	Price Per Dozen	Value of Production
	Millions	Cents	1,000 Dollars
1983	1,232	56.6	58,110
1984	1,306	62.3	67,803
1985	1,355	48.8	55,103
1986	1,295	51.5	55,577
1987	1,303	44.4	48,211

1/ Excluding broilers.
2/ 12 month period December 1, previous year, through November 30.

Broiler Production and Income 1/

Year	Number Produced	Pounds Produced	Price Per Pound	Value of 2/ Production
	1,000 Birds	1,000 Pounds	Cents	1,000 Dollars
1983	20,500	90,200	33.0	29,766
1984	21,700	95,480	37.5	35,805
1985	23,000	101,200	32.5	32,890
1986	25,100	112,950	31.0	35,015
1987	26,200	120,520	29.0	34,951

1/ 12 month period December 1 previous year through November 30 current year.
2/ Includes value of home consumption.

Broiler Commercial Slaughter

Year	Washington			United States		
	Number Slaughtered	Average Liveweight	Certified Pounds 1/	Number Slaughtered	Average Liveweight	Certified Pounds 1/
	1,000 Head	Pounds	1,000 Pounds	1,000 Head	Pounds	1,000 Pounds
1983	19,114	4.37	62,002	4,132,538	4.08	12,388,980
1984	20,933	4.39	68,116	4,272,328	4.17	12,998,613
1985	22,586	4.39	73,723	4,439,051	4.19	13,569,794
1986	25,047	4.45	83,248	4,642,784	4.23	14,265,627
1987	26,512	4.62	91,694	4,971,470	4.29	15,502,464

1/ Ready to cook weight.

MINK

Washington mink rancher's produced 219,900 pelts in 1987, up 1 percent from 1986. Washington ranked 4th nationally with 6 percent of the total U.S. pelt production. Wisconsin, Utah, and Minnesota ranked one, two, and three in order of production. Several color classes are produced in Washington with Standard the most predominant. Demi-buff and Gunmetal are also popular. These three color classes account for 93 percent of the State's pelt production.

Snohomish County is the top producer of mink pelts in Washington. Kittitas County was second and Pierce County was third. These three counties produced nearly 74 percent of Washington's 1987 pelt production.

Mink by County

County	Females Bred			Pelts Produced	
	1986	1987	1988	1986	1987
King	3,400	3,400	3,000	10,500	10,400
Kittitas	10,200	10,300	12,400	46,200	48,300
Pierce	12,600	11,900	11,900	42,700	45,300
Snohomish	16,900	19,300	20,400	72,800	69,000
Thurston	6,100	6,000	6,700	21,700	22,300
Whatcom	4,700	5,200	5,400	19,300	18,600
Other Co. 1/	1,100	1,100	1,600	4,100	6,000
State Total	55,000	57,200	61,400	217,300	219,900

1/ Clark, Lewis, Mason, Pacific.

Mink Pelts and Females Bred to Produce Kits

Color	Pelts Produced						Females Bred to Produce Kit					
	1982	1983	1984	1985	1986	1987	1983	1984	1985	1986	1987	1988
	1,000						1,000					
Standard	86.8	86.7	100.2	109.6	109.2	113.0	20.8	23.9	25.3	25.3	28.3	30.1
Ranch Wild	18.6	12.7	7.1	50.1	5.6	6.1	4.4	2.7	9.4	3.6	1.7	2.2
Demi-buff	38.6	45.5	53.2	18.7	47.2	49.1	10.8	11.5	4.9	11.6	11.7	11.8
Gunmetal	20.6	30.6	30.1	33.5	42.7	43.1	7.0	8.3	9.2	10.9	12.7	14.0
Mahogany	1/	1/	1/	3.2	3.1	2.5	1/	1/	1/	.8	.6	1.2
Pastel	9.6	7.2	5.2	5.2	4.9	2.3	2.0	1.4	1.1	1.3	1.1	1.1
Sapphire	4.5	5.5	7.8	3.7	2/	2.2	2.0	1.8	1.9	2/	.8	.7
Violet Type	5.0	3.9	5.9	2/	2/	2/	1.1	1.2	.4	2/	2/	2/
Other	5.8	5.9	7.0	2.0	4.6	1.6	1.4	1.2	.3	1.5	.3	.3
Total	189.5	198.0	216.5	226.0	217.3	219.9	49.5	52.0	52.5	55.0	57.2	61.4
Number Of Operations	37	36	37	45	42	49						

1/ Mahogany color not classified
2/ Included in Other.

BEES AND HONEY

The first recorded bee colony estimate in Washington was for the year 1913. The Department of Agriculture estimated Washington had 51,000 colonies that year. The latest estimate, 74 years later, is 75,000 colonies - only 24,000 colonies larger. The peak number was recorded in 1959 with 100,000 colonies.

Honey production, listed in the following table, is for honey produced in Washington. The honey production for 1987 was valued at $1.8 million.

A quarantine on bees and apiary equipment was declared by the Washington State Department of Agriculture on April 7, 1988, to prevent the spread of Varroa mite, a serious pest of bees. The Varroa mite is an external parasite that can wipe out entire colonies in a short time.

It is a common practice for large apiaries in Washington to transport their bees to surrounding states and California to collect honey. Under the Washington State quarantine, all colonies and associated apiary equipment entering Washington from quatantine areas outside the State must be certified as free from Varroa mites. Colonies leaving the State may be required to be certified as free from Varroa mites before interstate shipping documents will be issued. For more information or a copy of the quarantine order, contact Robert O. Rebhan at (206) 586-5306, or James Bach at (206) 872-6480.

Number of Colonies, Production, Average Price, and Value

Year	Number Of Colonies	Dec. 15 Stocks 2/	Honey			
			Production		Value	
			Per Colony	Total	Per Pound	Total
	1,000	1,000 Pounds	Pounds	1,000 Pounds	Cents	1,000 Dollars
1975	98	446	35	3,430	47.7	1,636
1976	95	499	25	2,375	46.0	1,093
1977	89	819	46	4,094	53.0	2,170
1978	90	630	35	3,150	54.9	1,729
1979	87	364	38	3,306	54.0	1,785
1980	90	454	42	3,780	57.0	2,155
1981	87	487	35	3,045	57.0	1,736
1982-85 1/	-	-	-	-	-	-
1986	75	360	48	3,600	48.0	1,728
1987	75	206	55	4,125	44.0	1,815

1/ Estimates not made 1982-85. 2/ Stocks in hands of producers.

Livestock Inventory by County 1/

County	Cattle and Calves		Cows that have calved			
			Beef		Milk	
	1987	1988	1987	1988	1987	1988
			Head			
Adams	70,000	70,000	28,300	24,000	3,000	3,000
Asotin	8,300	8,200	4,300	3,800	2/	2/
Benton	34,000	33,700	14,500	13,000	2,200	2,000
Chelan	4,400	4,400	3,000	2,700	2/	2/
Clallam	8,900	9,000	2,700	2,400	1,300	1,200
Clark	32,000	30,000	7,300	6,600	7,300	7,300
Columbia	6,900	6,800	3,100	2,700	2/	2/
Cowlitz	9,400	9,600	2,800	2,500	2,000	1,800
Douglas	16,800	16,500	5,300	5,000	200	100
Ferry	11,000	10,900	5,100	4,600	2/	2/
Franklin	74,000	74,000	32,000	30,000	2,200	2,500
Garfield	13,500	13,400	6,700	6,000	2/	2/
Grant	105,000	104,000	30,000	27,000	6,700	6,700
Grays Harbor	13,700	14,000	3,100	2,700	5,600	5,600
Island	6,900	6,900	1,000	1,000	1,200	2,000
Jefferson	3,600	3,600	700	600	500	500
King	41,800	42,000	5,900	5,500	16,900	17,700
Kitsap	2,000	2,000	500	500	2/	2/
Kittitas	63,000	62,000	27,600	24,800	1,000	900
Klickitat	24,500	24,400	11,400	10,300	1,300	1,200
Lewis	42,600	42,700	9,300	8,500	12,000	12,000
Lincoln	45,200	44,500	25,000	22,500	200	300
Mason	2,400	2,400	500	500	100	200
Okanogan	46,100	44,500	29,000	26,000	300	300
Pacific	10,000	10,000	4,300	4,000	2,200	2,300
Pend Oreille	6,700	6,600	2,600	2,300	300	300
Pierce	31,500	32,000	5,300	5,000	11,800	12,400
San Juan	3,200	1,700	1,500	600	2/	2/
Skagit	44,500	44,500	4,100	3,800	16,200	16,500
Skamania	600	600	300	300	2/	2/
Snohomish	50,000	50,000	6,300	5,700	20,500	21,200
Spokane	42,600	42,200	16,700	15,000	5,200	5,200
Stevens	37,700	37,300	12,400	11,100	3,000	3,200
Thurston	26,200	26,500	6,000	5,300	7,900	8,000
Wahkiakum	6,700	5,500	1,000	800	2,000	2,000
Walla Walla	47,600	47,200	12,200	11,000	1,200	1,300
Whatcom	109,000	109,000	10,400	9,500	50,100	52,600
Whitman	30,700	30,400	15,400	14,000	600	500
Yakima	167,000	167,000	41,400	37,400	15,600	19,800
Other Counties	-	-	-	-	400	400
State Total	1,300,000	1,290,000	399,000	359,000	201,000	211,000

1/ Cattle and sheep inventories, January 1. Hog inventory, December 1. Broiler production, December 1 - November 30. 2/ Included in Other Counties.

- Not applicable.

Livestock Inventory by County 1/ (continued)

County	Sheep and Lambs		Hogs and Pigs		Broiler Production	
	1987	1988	1986	1987	1986	1987
			Head			
Adams	900	1,000	1,400	1,500	-	-
Asotin	350	350	400	400	-	-
Benton	2,800	2,800	1,800	1,900	-	-
Chelan	300	400	300	300	-	-
Clallam	1,500	1,500	200	250	-	-
Clark	1,700	2,000	700	600	1,908,000	1,990,000
Columbia	300	300	1,000	1,200	-	-
Cowlitz	800	850	100	100	1,682,000	1,755,000
Douglas	600	500	500	400	-	-
Ferry	500	500	200	200	-	-
Franklin	2,000	2,300	3,100	3,400	-	-
Garfield	450	450	900	900	-	-
Grant	3,000	3,200	6,200	6,500	-	-
Grays Harbor	400	450	200	200	125,000	130,000
Island	300	350	200	150	-	-
Jefferson	200	150	100	100	-	-
King	1,000	1,300	900	800	1,757,000	1,835,000
Kitsap	1,100	1,200	400	500	-	-
Kittitas	5,800	6,000	2,100	2,200	-	-
Klickitat	2,500	3,000	800	800	-	-
Lewis	2,400	2,400	300	300	4,719,000	4,927,000
Lincoln	1,500	1,500	2,000	2,000	-	-
Mason	200	200	100	100	-	-
Okanogan	2,300	2,500	1,100	1,400	-	-
Pacific	250	200	150	150	-	-
Pend Oreille	300	300	400	400	-	-
Pierce	800	800	500	400	3,489,000	3,642,000
San Juan	2,300	1,700	50	50	-	-
Skagit	500	600	100	100	527,000	550,000
Skamania	250	300	50	50	-	-
Snohomish	1,800	1,900	500	500	4,468,000	4,665,000
Spokane	2,000	2,500	3,400	3,400	-	-
Stevens	1,700	1,700	3,400	3,500	-	-
Thurston	1,100	1,100	400	400	3,162,000	3,300,000
Wahkiakum	200	200	50	50	-	-
Walla Walla	1,400	1,000	1,000	1,100	-	-
Whatcom	700	600	500	500	2,309,000	2,410,000
Whitman	1,800	2,000	12,300	16,000	-	-
Yakima	11,000	21,900	2,200	2,200	552,000	576,000
Other Counties	-	-	-	-	402,000	420,000
State Total	59,000	72,000	50,000	55,000	25,100,000	26,200,000

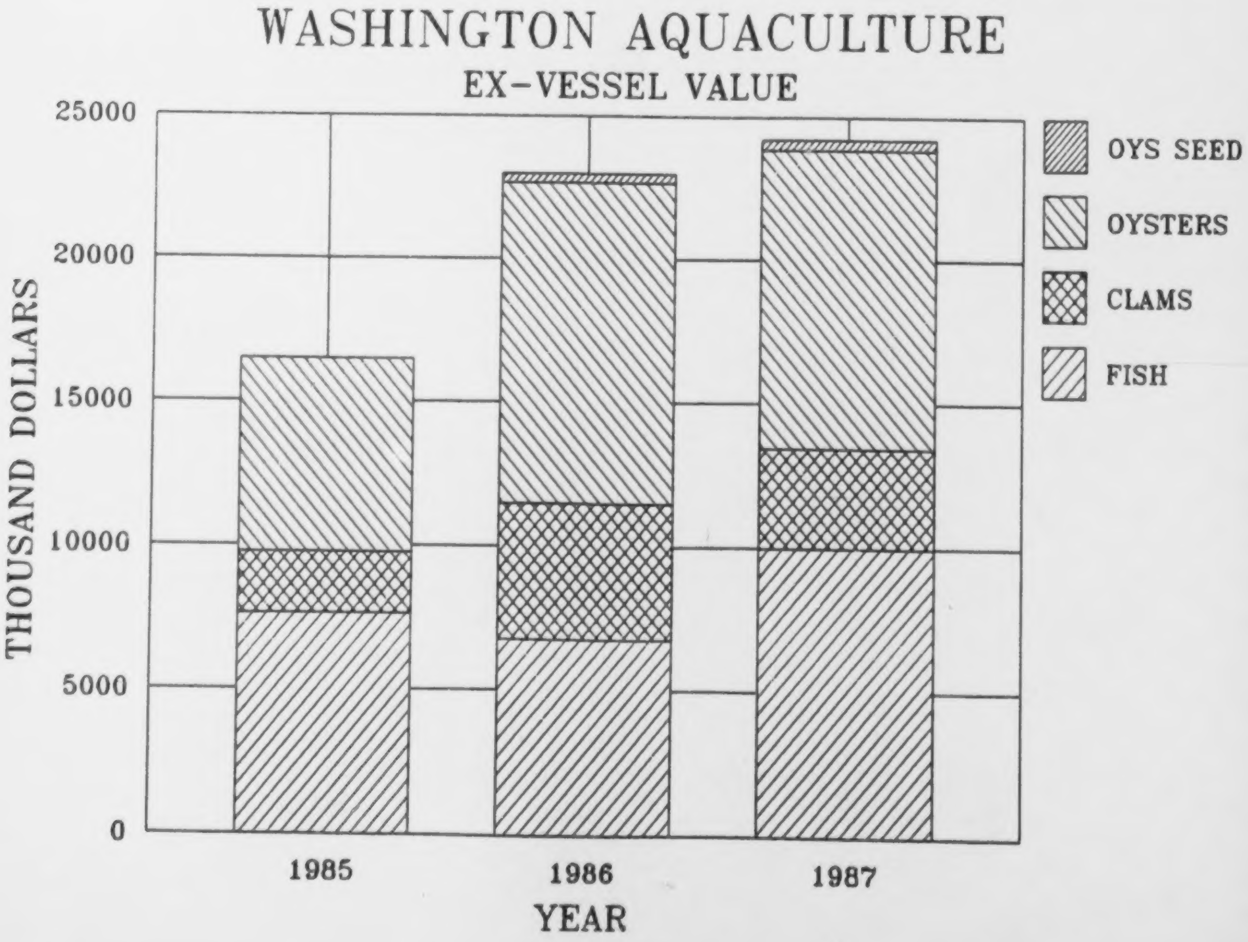
1/ Cattle and sheep inventories, January 1. Hog inventory, December 1. Broiler production, December 1 - November 30.

AQUACULTURE

Fishing is one of the oldest industries in the State of Washington. Fish, primarily the salmon, was an essential part of the diet of Native Americans and early settlers. As fishing became a profitable trade, supervision and control was needed to develop markets and to manage the aquatic resources. The Department of Fisheries was formed in 1875 and entrusted to regulate, and perpetuate the inland fresh water and the Puget Sound fishing industry.

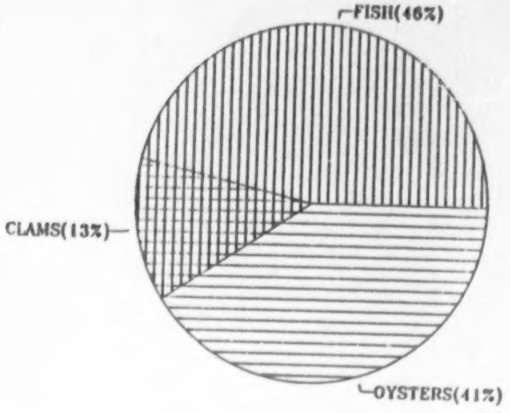
The original charge of Department of Fisheries continues to this day with only small changes to its organization and duties. The Department of Fisheries is responsible for a variety of duties that include regulations, registration, collection of data, and disease control.

Aquaculture, the cultivation of sea animals and plants in controlled marine environments, is a rapidly expanding enterprise within the Washington fishing industry. Aquaculture in our state consists mainly of fish, clam and oyster production. In 1987, aquaculture products contributed over $24 million to the State's value of production, 5 percent more than in 1986, and 47 percent more than 1985.

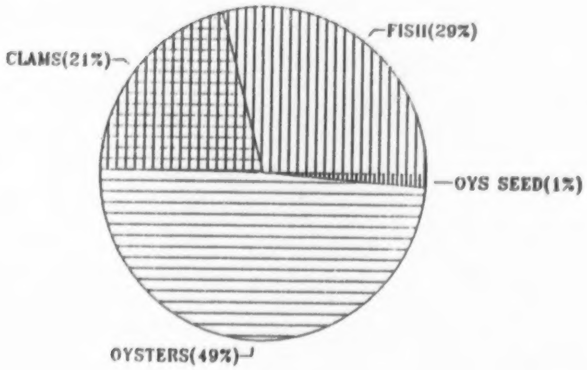


WASHINGTON AQUACULTURE

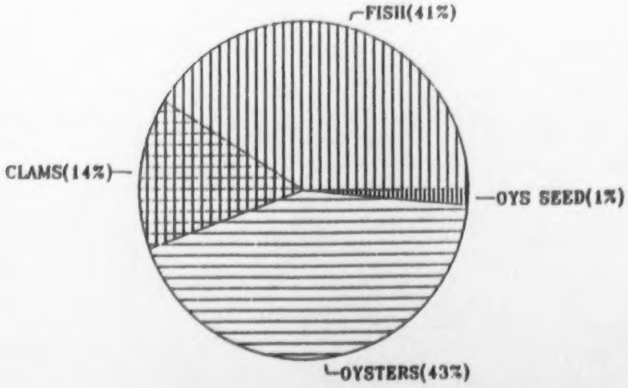
VALUE OF PRODUCTION - 1985



VALUE OF PRODUCTION - 1986



VALUE OF PRODUCTION - 1987



Aquaculture Production, Washington, 1985-87

Species	Quantity			Ex-Vessel Value		
	1985	1986	1987	1985	1986	1987
Fish		Pounds			Dollars	
Salmon						
Market	3,804,655	2,532,367	3,362,354	4,579,053	3,738,323	5,001,141
Juvenile	160	N/A	6,198	10,240	N/A	25,442
Egg	N/A	15,769	10,537	N/A	434,867	311,740
Trout						
Market	665,297	327,391	259,532	1,330,594	593,301	554,638
Juvenile	7,990	63,211	74,180	199,750	140,918	194,370
Egg	50,168	49,814	61,402	1,404,704	1,506,712	1,889,412
Atlantic Salmon						
Market	N/A	17,811	248,223	N/A	67,413	1,175,984
Juvenile	880	7,542	28,008	56,320	265,444	553,355
Egg	418	N/A	1,612	50,160	N/A	263,271
Total Market	4,469,952	2,877,569	3,870,109	5,909,647	4,399,037	6,731,763
Total Juvenile	9,030	70,753	108,386	266,310	406,362	773,167
Total Egg	50,586	65,583	73,551	1,454,864	1,941,579	2,464,423
Total Fish	4,529,568	3,013,905	4,052,046	7,630,821	6,746,978	9,969,353
Clams						
Butter	22,357	70,370	14,096	7,428	12,007	5,880
Cockles	N/A	N/A	1,632	N/A	N/A	346
Geoducks	N/A	N/A	2,494	N/A	N/A	3,232
Horse	N/A	77,910	21,648	N/A	6,193	6,874
Littleneck	455,977	926,493	994,985	277,523	754,143	541,463
Manilla	2,855,655	3,696,211	3,159,187	1,541,895	3,459,931	2,472,100
Mussels	254,967	297,313	284,684	135,133	349,412	343,306
Softshell	405,314	422,846	191,780	155,511	140,356	102,063
Manila Clam Seed	N/A	N/A	N/A	N/A	N/A	50
Total Clams	3,994,270	5,491,143	4,670,506	2,117,490	4,722,042	3,475,314
Oysters						
Olympia	2,447	7,457	7,125	52,537	167,364	109,780
Pacific	5,979,989	8,638,877	9,352,384	6,398,588	10,993,283	10,253,870
Kumamoto	29,731	N/A	N/A	273,228	N/A	N/A
Edulis	1,219	5,412	N/A	20,625	52,033	N/A
Other	N/A	N/A	9,342	N/A	N/A	56,225
Total Oysters 1/	6,013,386	8,651,746	9,368,851	6,744,978	11,212,680	10,419,875
Oyster Seed (Bags)	N/A	28,655	28,329	N/A	301,922	363,291
Total Production 2/	14,537,224	17,156,794	18,091,403	16,493,289	22,983,622	24,227,833

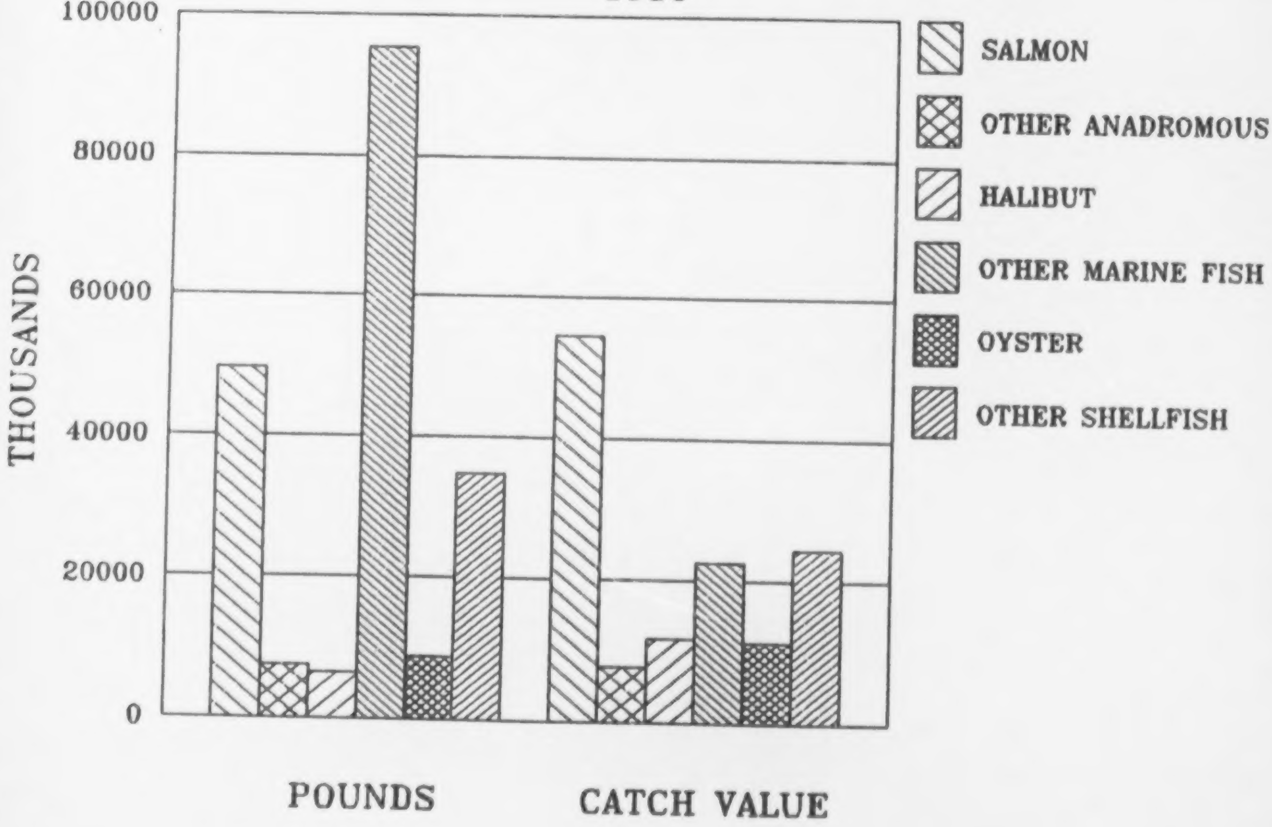
1/ Quantity in gallon units.
2/ Total Production quantity does not include oyster seed.
N/A - Not Available
Source: Department of Fisheries, State of Washington

Washington Sea Products, 1984-86

Species	Weight			Catch Value		
	1984	1985	1986	1984	1985	1986
	1,000 Pounds			$1,000		
Salmon	27,784	65,885	49,660	31,402	50,598	54,513
Other Anadromous	3,680	6,348	7,399	3,968	8,236	7,723
Halibut	5,583	5,700	6,468	5,564	7,268	11,849
Other Marine Fish	119,988	102,799	95,507	23,144	21,454	22,576
Oysters	7,180	6,023	8,711	5,797	6,756	11,270
Other Shellfish	17,180	23,661	34,771	11,508	13,709	24,493
Total	181,395	210,416	202,516	81,383	108,021	132,424

Source: Department of Fisheries, State of Washington

WASHINGTON SEA PRODUCTS
1986



Washington Agricultural Statistics Service

Current estimates of the data published in this bulletin are available throughout the year. The following table identifies the types of estimates made for each commodity by month. The current estimates are published in a monthly publication "Agri- Facts". The annual subscription fee for "Agri-Facts" is $10 per year. Reporters for our surveys receive reports free of charge.

Washington Agricultural Statistics Service Reports

A = Acreage, P = Production, X = Estimates Released, PU = Production and Utilization, PDI = Production, Disposition, and Income, S = Stocks.

Commodity	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Winter Wheat	A,P				A,P	P	A,P	P	A,P			
Spring Wheat	A,P		A					P	P			
Barley	A,P		A				A,P	P	P			
Oats	A,P		A				A			A,P		
Field Corn			A				A					
For Grain	A,P							P				
For Silage	A,P											
Dry Edible Beans	A,P		A				A	P	P	P	P	
Dry Peas and Lentils	A,P									A,P		
Potatoes	S	S	S	S	S		A		PU		P	A,P,S
Hops	A,P		S				A	P	S			
Hay	A,P,S		A		S		A	P		P		
Mint	A,P											
Grain Stocks			S			S			S			S
Apples	PU						P,PU	P		P		
Apricots	PU					P	P					
Cherries, Sweet	PU					P	P					
Grapes	PU							P	P	P		
Peaches	PU					P	P	P				
Pears, Bartlett	PU					P	P	P	P			
Pears, Other	PU						P	P	P			
Prunes	PU							P	P	P		
Cranberries	A,P							P				
Strawberries				A		P			A,P			A,P
Onions: Storage			A				A		P	P		A,P
Non-Storage			A		A		P	P				A,P
Vegetables			A			A,P	A,P	P	P			A,P
Cattle on Feed	X			X			X			X		
Cattle Inventory & Calf Crop	X			PDI								
Milk Production	X	X	X	X	X	X	X	X	X	X	X	X
Manufactured Dairy Products	X	X	X	X	X	X	X	X	X	X	X	X
Sheep Inventory & Lamb Crop	X			PDI								
Wool Production			X									
Hog Inventory & Pig Crop				PDI								X
Livestock Slaughter	X	X	X	X	X	X	X	X	X	X	X	X
Egg Production	X	X	X	X	X	X	X	X	X	X	X	X
Hatchery and Broilers				PDI								
Bees and Honey	X											
Mink							X					
Farm Employment & Wage Rates				X			X			X		
Farm Numbers								X				
Prices Received by Farmers	X	X	X	X	X	X	X	X	X	X	X	X
Prices Paid by Farmers, Regional.	X			X			X			X		